

Demolition Permit Submission

March 12th 2021

Natural Gas Utility

March 12, 2021

Joseph Duca
Director of Inspectional Services
Inspectional Services Department
55 Sea Street
Quincy, MA 02169

Re: 114 Whitwell Demolition Permit

Dear Jay,

FoxRock was recently notified by National Grid that the existing gas services at locations B and C on the attached plan cannot be cut and capped prior to commencement of demolition due to internal issues within National Grid.

The first phase of building demolition is on the opposite side of the site, and demolition activity will not occur near the active gas lines until the later phases of demolition for which we will seek approvals for that work at a later time. At this time, we are asking the City for permission to begin the first phase of demolition.

As discussed, the General Contractor, Dellbrook Construction LLC, will submit a revised NFPA 241 Construction Fire Safety Plan to the Quincy Fire Department describing the measures they will implement to ensure demolition operations will not impact the live gas services.

Both FoxRock Properties and Dellbrook are aware of the risks associated with working in proximity to active gas lines. Due to the distance between the location of the Phase 1 demolition work and the active lines, we feel the risks can be managed appropriately to ensure a safe and timely demolition process as National Grid looks to follow-through on our previous request to cut and cap all gas lines.

Please contact me at your earliest convenience if you have any questions or require additional information

Best,



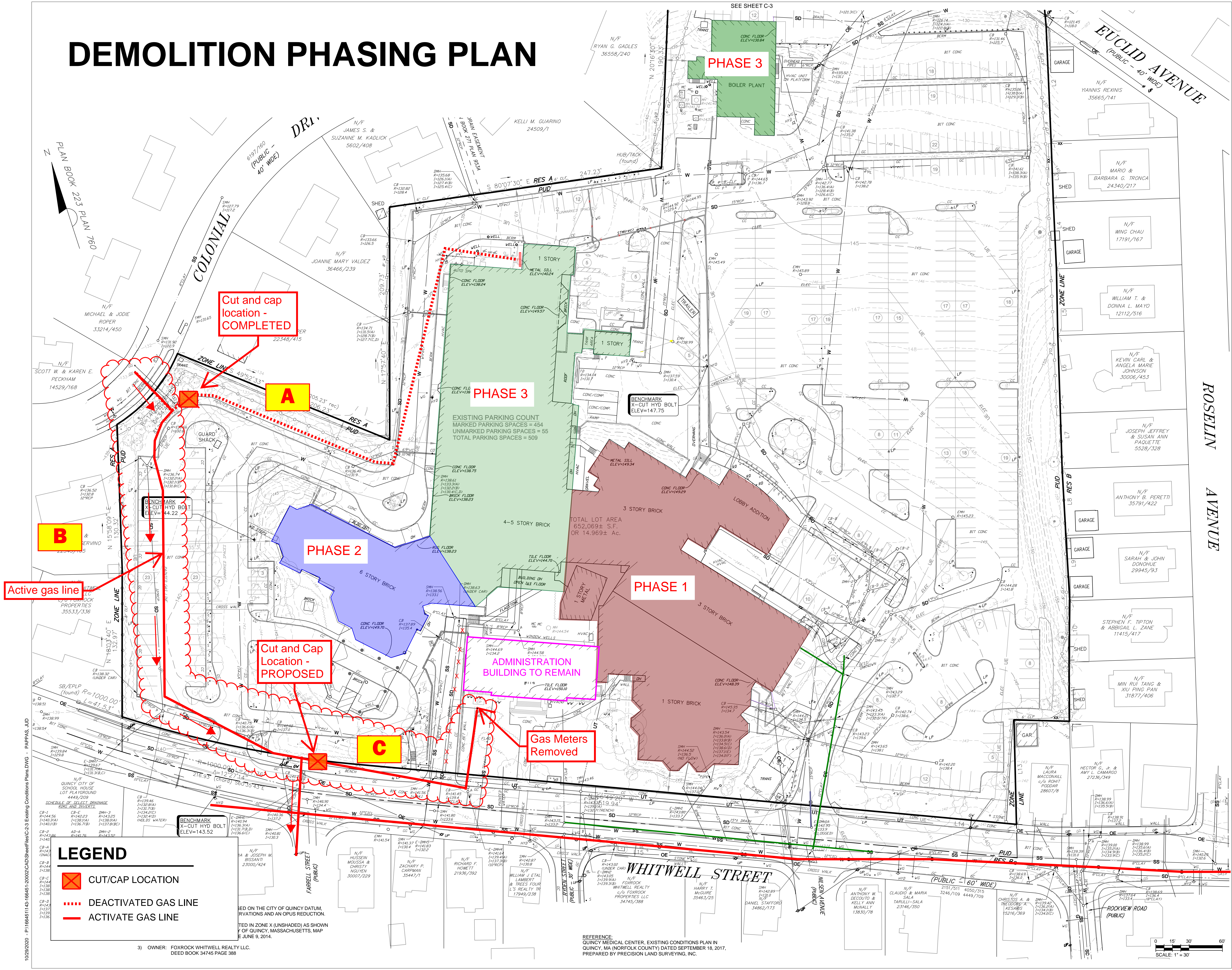
Josh Kleinman, AIA
Director of Design & Construction
FoxRock Properties

Enclosures: Demolition Phasing Plan

cc:

Matt Tharion, FoxRock Properties
Steve Purdue, Redgate
Racquel Davey, AIA, Redgate
Sean Lawton, Redgate
Chris Modica, DELLBROOK|JKS
Tim Dann, DELLBROOK|JKS

DEMOLITION PHASING PLAN



REVISIONS

1	5-7-19	SUBMIT TO PLANNING BOARD
2	9-5-19	SUBMIT REVISED PLANS
3	11-25-19	STORMWATER DESIGN IMPROVEMENT
4	8-28-20	MINOR MODIFICATION SUBMISSION
5	10-13-20	MODIFIED STORMWATER & UTILITIES

ASHLAR PARK
114 WHITWELL STREET, QUINCY, MA

DEVELOPER:
FRP QUINCY DEVELOPMENT LLC
C/O FOXROCK WHITWELL REALTY LLC
1200 Hancock Street, Suite 301
Quincy, MA 02169



CIVIL ENGINEERING:
TETRA TECH
20 Cabot Blvd. Suite 305
Mansfield, MA 02048



LANDSCAPE ARCHITECTURE:
KLOPPER FARM DESIGN GROUP
69 Canal St. 2 Fl, Boston, MA 02114



ARCHITECT:
ARROWSTREET
10 Post Office Square
Suite 700N
Boston, MA 02109



SCALE
1" = 30'

PROJECT #
20020

DATE ISSUED
5/7/19



March 3, 2021

114 Whitwell St

Ashlar Park
114 Whitwell St
Quincy, MA 02169

To Whom it May Concern:

See Map Attached

This letter is provided to notify you that National Grid cut the gas main at Section A on the attached map. Section B and C is still live. Section C going into the Admin Building will be cut off and not used for future growth.

114 Whitwell St on February 26th.

This letter **DOES NOT** preclude the excavator or homeowner from **calling 811** before commencing any work. State law requires anyone planning underground excavation work to notify local utilities by **calling 811** to get your underground lines identified for you prior to doing any digging. **The call to 811 is the LAW** and must be made in advance of starting work. This confirmation letter of a gas cut-off **DOES NOT** relieve the excavator of making the **call to 811. It is a State Law requirement."**

If you have any questions or concerns, please call or email me.

Thank you,

Kerrie Doyle
nationalgrid
Lead Account Manager
Kerrie.doyle@nationalgrid.com
781-999-3251

Commented [DK1]:

Commented [DK2R1]:

Electrical Utility

February 23, 2021

Quincy Medical Center Electrical Demolition

PROJECT: Ashlar Park
114 Whitwell Street
Quincy, MA 02169

OWNER: FoxRock Whitwell Realty, LLC
1200 Hancock Street
Quincy, MA 02169

GENERAL CONTRACTOR: Dellbrook JK Scanlan
One Adams Place
Quincy, MA 02169

This is the method of procedure for the disconnection of electrical equipment for the demolition of the existing building in three phases. The phases comprise of phase one east wing, phase two south wing and phase three west wing and boiler plant. Phase three must remain active until EMS and Fire Departments equipment is remove from site. Tentative date for this is May 28th, 2021.

- The main incoming primary electrical service originates from an underground duct back from utility pole #1290/20 on Whitwell Street and enters the high voltage vault at the east entrance to the site.
- The site consists of primary voltage feeders two 5kv and two 15kv systems.
- The 5kv system runs via an underground duct bank from the high voltage vault to the East Wing and an overhead conduit to the West Wing.
- The 15kv system runs via an underground duct bank from the high voltage vault to the West Wing and then to Boiler Plant. This will remain active until the EMS and Fire Departments equipment is removed. Approximately May 28th, 2021.

Phase One East Wing Demolition – Consisting of East Wing, Rice Building and C Building

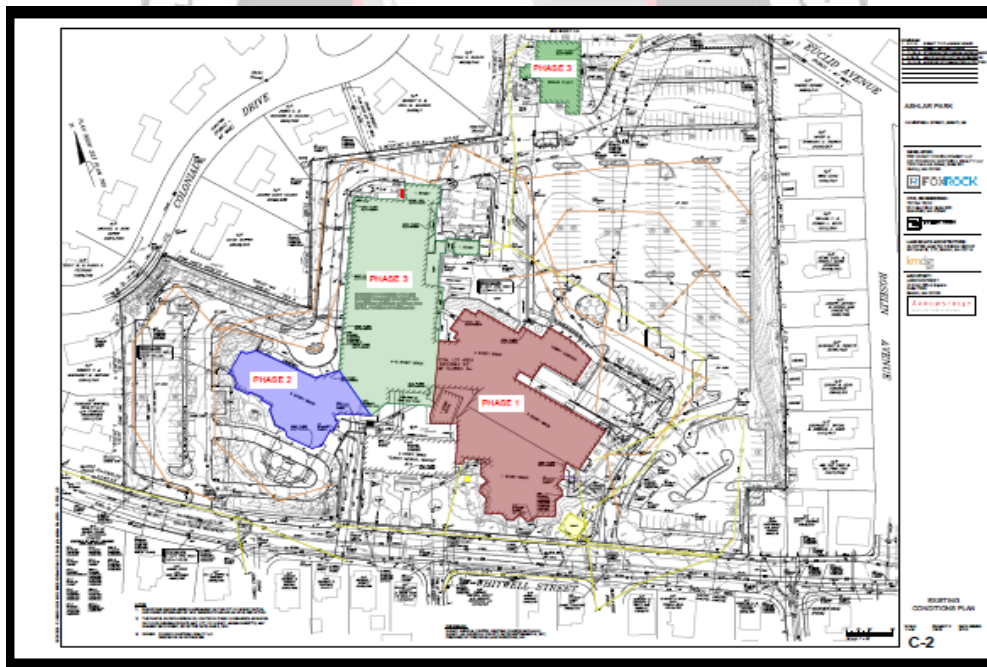
- The East Wing is primarily feed from the 5kv system.
- The 5kv system will be disconnected in the exterior vault and lockout tagged out. Conductors will be disconnected and grounded out. This will be completed by February 26, 2021.
- Once the 5kv system is disconnected the East Wing will be check for any active electrical feeders from the Phase Three section of the building.
- Any active electric feeders will be removed from their power source and cut back as not to able to be reconnected.
- Once the above is completed this area will be turned over to the general contractor for demolition.
- Glynn Electric will provide a sign off on their letter head for each demolition certifying the area has been made safe.

Phase Two South Wing Demolition – Consistent of Building A

- The South Wing electrical feeders originate from the Phase Three section of the building.
- All active electric feeders in the South Wing will be removed from their power source and cut back as not to be able to be reconnected.
- Once the above is completed this area will be turned over to the general contractor for demolition. Glynn Electric will provide a sign off on their letter head for each demolition certifying the area has been made safe.
- Glynn Electric will provide a sign off on their letter head for each demolition certifying the area has been made safe.

Phase Three West Wing – Consisting of West Wing, Building B and Boiler Plant

- This the final phase of the demolition, once it is confirmed that the EMS and Fire Departments equipment is removed National Grid will be notified to disconnect and remove the electrical service to the site.
- Once the above is completed this area will be turned over to the general contractor for demolition.
- Glynn Electric will provide a sign off on their letter head for each demolition certifying the area has been made safe.



Charles Soares
Project Manager
Glynn Electric, Inc.
508-961-8058

March 8, 2021

Quincy Medical Center Electrical Demolition Affidavit

PROJECT: Ashlar Park
114 Whitwell Street
Quincy, MA 02169

OWNER: FoxRock Whitwell Realty, LLC
1200 Hancock Street
Quincy, MA 02169

GENERAL CONTRACTOR: Dellbrook JK Scanlan
One Adams Place
Quincy, MA 02169

I hereby certify that as the licensed contractor responsible for the make safe of the electrical circuits in the Phase One East Wing demolition consisting of East Wing, Rice Building and C Building.

The 5kv system has been disconnected in the exterior vault and lockout tagged out. Conductors have been disconnected and grounded out. East Wing has been checked for any active electrical feeders from the Phase Three section of the building. Any active electric feeders have been removed from their power source and cut back as not to be able to be reconnected.



Signature

Charles Soares

Print

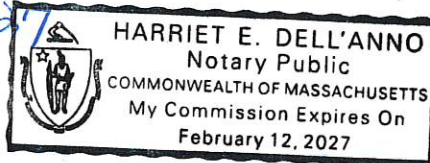
Date: 3/08/2021

Then personally appeared the above named Charles Soares and
Made oath that the foregoing statement by him subscribed this day was his free act and deed, before
me:



Notary Public

My commission expires: 2/12/2027



Water Department

Timothy Dann

From: Paul Costello <pcostello@quincyma.gov>
Sent: Monday, March 1, 2021 2:56 PM
To: Chris Modica; Josh Kleinman; ROBERT A STEVENS; MARK VIALPANDO; PETER HOYT
Cc: Timothy Dann; Frank Leonardo; Robert Solon
Subject: Re: FoxRock Ashlar Park - New Water Service

Chris,

I spoke to Peter Hoyt and we are amenable to what you propose. Please submit the Street Access Permit as soon as you can and we'll process it.

Paul

From: Chris Modica <cmodica@dellbrookjks.com>
Sent: Monday, March 1, 2021 1:45 PM
To: Josh Kleinman <josh@foxrockquincy.com>; Paul Costello <pcostello@quincyma.gov>; ROBERT A STEVENS <RSTEVENS@quincyma.gov>; MARK VIALPANDO <MVIALPANDO@quincyma.gov>; PETER HOYT <phoyt@quincyma.gov>
Cc: Timothy Dann <tdann@dellbrookjks.com>; Frank Leonardo <FLeonardo@dellbrookjks.com>; Robert Solon <RSolon@dellbrookjks.com>
Subject: FoxRock Ashlar Park - New Water Service

Hi Paul, Josh Kleinman forwarded me the mail below. Our Site contractor, J.R. Vinagro, is in the process of ordering the materials for the new water service. For the temporary vaults, we are ordering 6' diameter manhole riser sections w/flat tops. Each riser section will house a 2" water service w/a water meter & BFP. The installation of the new water service is time sensitive, as a result, we would like to coordinate w/the city & perform the work as soon as we have all materials in hand. We plan on cutting & capping the existing water service at the main in Whitwell Street, however, we will not be ready to cut/cap the service until early April. Please confirm the City is amenable to our plan to install the new water service ASAP & cut/cap the existing water service in early April.

Feel free to call me directly if you have any questions.

Thanks,

Chris Modica
Senior Project Manager
Direct: (781) 380-1679/Mobile: 617-874-6520



One Adams Place | 859 Willard St. | Quincy, MA 02169 | 781.380.1675
15 Research Rd. | East Falmouth, MA 02536 | 508.540.6226



----- Forwarded message -----

From: Paul Costello <pcostello@quincyma.gov>
Date: Fri, Feb 26, 2021 at 2:54 PM
Subject: Demolition Plan
To: Josh Kleinman <josh@foxrockquincy.com>
CC: ROBERT A STEVENS <RSTEVENS@quincyma.gov>, MARK VIALPANDO <MVIALPANDO@quincyma.gov>

Josh,

We were able to print the demo plan you sent and I gave it to Mark Vialpando to review. I also want to point out that the 12"1954 CICL on Euclid Street split on January 12, 2018 - about 200 feet where your proposed temporary meter is. For an FYI, the 12" line from your site also goes into a 6" 1954 CICL on Euclid and a 12" 1954 CICL on Roselin Ave. Our Phase 2 capital improvement plan includes paving of Euclid and, prior to, we intend to assess if the 6" diameter on Euclid needs to be upgraded.

I also noticed that you intend to cut and cap the utilities on your site. Mark and Peter generally cut and cap the pipes in the street and back to the mains. This is good practice to avoid having stems of abandoned pipes in the street.

Paul

The content of this email is confidential and intended for the designated recipient specified above. If you are not the intended recipient, then you received this message by mistake. Please notify the sender of the mistake by replying to this message and then immediately delete it from your computer. It is strictly forbidden to share any part of this message with any third party, without written consent of the sender.

--

Josh Kleinman, AIA

Director of Design & Construction

617.433.7792

foxrockproperties.com

1200 Hancock Street, Suite 301, Quincy, MA 02169



Drainage and Sewer Department

DEMOLITION NOTES:

1. PRIOR TO DEMOLITION EROSION CONTROL MEASURES ARE TO BE INSTALLED PER THE SWPPP.
2. BUILDINGS ON SITE TO BE DEMOLISHED IN THE ORDER SHOWN ON SWPPP.
3. ALL DRAINAGE STRUCTURES AND PIPING TO BE REMOVED IN THE ORDER SHOWN ON SWPPP.
4. ALL TREES TO BE SAVED SHALL BE PROTECTED AS SHOWN ON THE SWPPP.
5. ALL PAVEMENT (ROADS, SIDEWALKS AND CONCRETE PADS) TO BE REMOVED AND DISPOSED OF.
6. ALL UNDERGROUND ELECTRIC AND TELECOMMUNICATION LINES TO BE REMOVED AS REQUIRED FOR PROPOSED WORK OR ABANDONED IN PLACE.
7. ALL OVERHEAD WIRES TO BE REMOVED.
8. DRAIN MANHOLES AND CATCH BASINS TO BE REMOVED AND DISPOSED (R&D) AS SHOWN.
9. SEWER MANHOLES TO BE REMOVED AND DISPOSED (R&D) AS SHOWN.
10. ALL SITE SIGNAGE TO BE REMOVED.

- REVISIONS
- | | | |
|---|----------|---------------------------------|
| 1 | 5-7-19 | SUBMIT TO PLANNING BOARD |
| 2 | 9-5-19 | SUBMIT REVISED PLANS |
| 3 | 11-25-19 | STORMWATER DESIGN IMPROVEMENT |
| 4 | 8-28-20 | MINOR MODIFICATION SUBMISSION |
| 5 | 10-13-20 | MODIFIED STORMWATER & UTILITIES |

ASHLAR PARK

114 WHITWELL STREET, QUINCY, MA

DEVELOPER:
FRP QUINCY DEVELOPMENT LLC
C/O FOXROCK WHITWELL REALTY LLC
1200 Hancock Street, Suite 301
Quincy, MA 02169



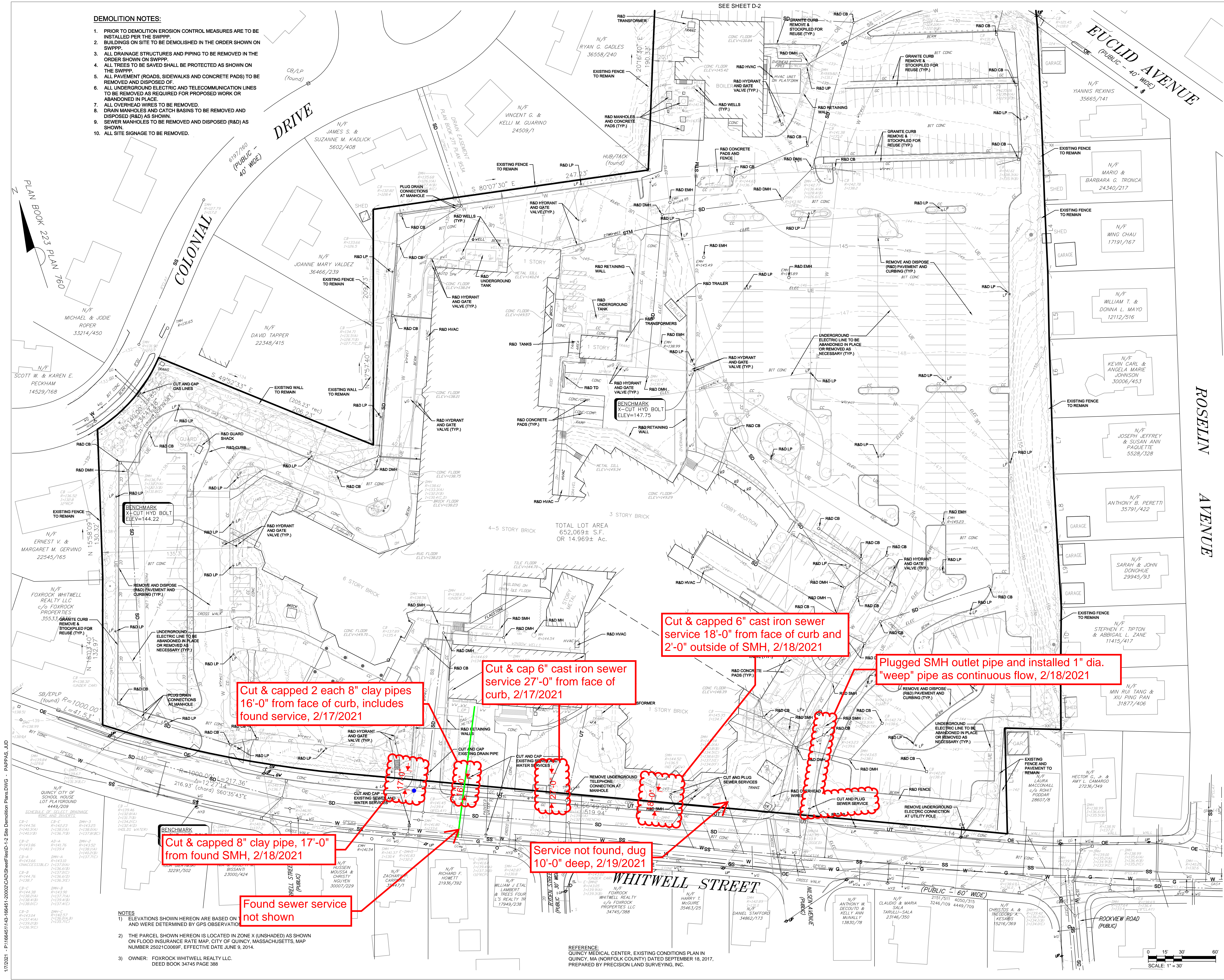
CIVIL ENGINEERING:
TETRA TECH
20 Cabot Blvd. Suite 305
Mansfield, MA 02048



LANDSCAPE ARCHITECTURE:
KLOPPER MARTIN DESIGN GROUP
69 Canal St. 2 FI, Boston, MA 02114



ARCHITECT:
ARROWSTREET
10 Post Office Square
Suite 700N
Boston, MA 02109



DRAFT
1-7-21

SITE DEMOLITION PLAN

SCALE 1" = 30' PROJECT # 20020 DATE ISSUED 5/7/19

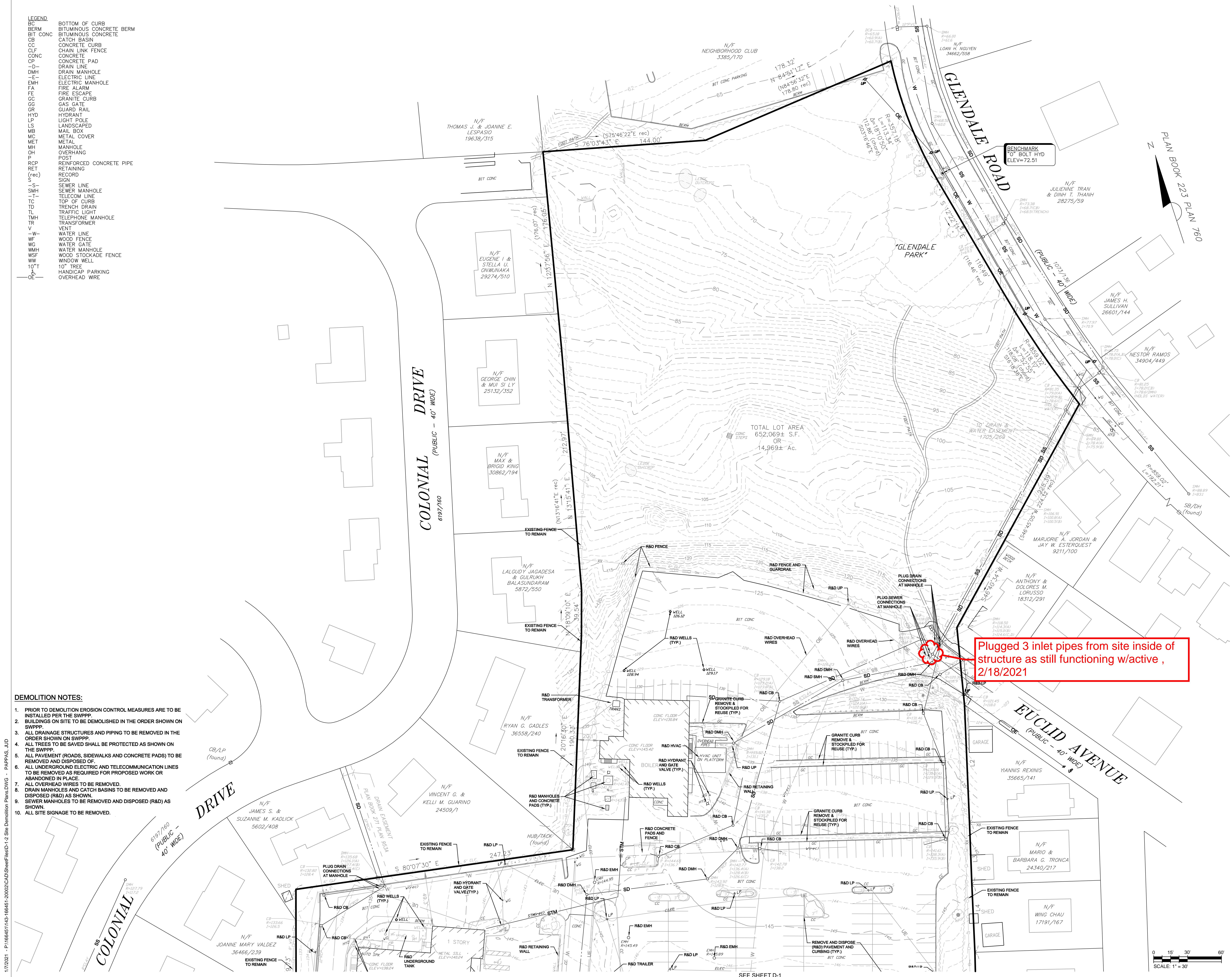
D-1

LEGEND	
BC	BOTTOM OF CURB
BERM	BITUMINOUS CONCRETE BERM
BIT CONC	BITUMINOUS CONCRETE
CB	CATCH BASIN
CC	CONCRETE CURB
CLF	CHAIN LINK FENCE
CONC	CONCRETE
CP	CONCRETE PAD
-D-	DRAIN LINE
DMH	DRAIN MANHOLE
-E-	ELECTRIC LINE
EMH	ELECTRIC MANHOLE
FA	FIRE ALARM
FE	FIRE ESCAPE
GC	GRANITE CURB
GG	GAS GATE
GR	GUARD RAIL
HYD	HYDRANT
LP	LIGHT POLE
LS	LANDSCAPED
MB	MAIL BOX
MC	METAL COVER
MET	METAL
MH	MANHOLE
OH	OVERHANG
P	POST
RCP	REINFORCED CONCRETE PIPE
RET	RETAINING
(rec)	RECORD
S	SEWER LINE
-S-	SEWER MANHOLE
SMH	TELECOM LINE
-T-	TOP OF CURB
TC	TRENCH DRAIN
TD	TRAFFIC LIGHT
TL	TELEPHONE MANHOLE
TMH	TRANSFORMER
TR	VENT
V	WATER LINE
-W-	WOOD FENCE
WF	WOOD FENCE
WG	WATER GATE
WMH	WATER MANHOLE
WSF	WOOD STOCKADE FENCE
WW	WINDOW WELL
10" T	10" TREE
⋈	HANDICAP PARKING
OE	OVERHEAD WIRE

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9. SEWER MANHOLES TO BE REMOVED AND DISPOSED (RAD) AS SHOWN.
10. ALL SITE SIGNAGE TO BE REMOVED.

17/2021 - P:\16645\1143-16645-2002\CAD\Sheet\Lead-1-2 Site Demolition Plans.DWG - P:\PPAS-JUD



REVISIONS		
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5	10-13-20	MODIFIED STORMWATER & UTILITIES

ASHLAR PARK

114 WHITWELL STREET, QUINCY, MA

DEVELOPER:
FRP QUINCY DEVELOPMENT LLC
C/O FOXROCK WHITWELL REALTY LLC
1200 Hancock Street, Suite 301
Quincy, MA 02169



CIVIL ENGINEERING:
TETRA TECH
20 Cabot Blvd. Suite 305
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69 Canal St, 2 FI, Boston, MA 02114



ARCHITECT:
ARROWSTREET
10 Post Office Square
Suite 700N
Boston, MA 02109



DRAFT
1-7-21

SITE DEMOLITION
PLAN

SCALE 1" = 30' PROJECT # 20020 DATE ISSUED 5/7/19

D-2

Dig Safe Notification

Bill Peckham

From: Joseph Godino
Sent: Tuesday, February 09, 2021 6:36 AM
To: Bill Peckham
Subject: FW: Dig Safe Ticket: 20210601576

fyi

From: DigSafe <callcenter@digsafe.com>
Sent: Tuesday, February 9, 2021 6:35 AM
To: Joseph Godino <josephg@jrvinagrocorp.com>
Subject: Dig Safe Ticket: 20210601576

(DIG SAFE SYSTEM, INC - MA) 02/09/2021 06:35:05

-BB -HK -MF -QA
-SC

*** INTERNET TICKET ***

***** REGULAR *****

TIME..06:33 DATE..02/09/2021

REQUEST NO...20210601576

STATE.....MASSACHUSETTS
MUNICIPALITY..QUINCY

ADDRESS..114
STREET...WHITWELL ST

NEAREST CROSS STREET 1..ROSELIN AVE

114 WHITWELL STREET- QUINCY MEDICAL CENTER

NATURE OF WORK..CUT AND CAP, NEW DRAIN, WATER AND SEWER

EXTENT OF WORK
WITHIN WHITWELL STREET ALONG PROPERTY AND ON PROPERTY

AREA IS PREMARKED..YES

START DATE.....02/12/2021 START TIME..06:45

CALLER.....JOSEPH GODINO
TITLE.....
RETURN CALL.....
PHONE #.....401-225-4349
FAX #.....
ALT. PHONE #....401-383-7198
EMAIL [ADDRESS...JOSEPHG@JRVINAGROCORP.COM](mailto:JOSEPHG@JRVINAGROCORP.COM)
CONTRACTOR.....JR VINAGRO CORPORATION
ADDRESS.....2208 PLAINFIELD PIKE
CITY.....JOHNSTON

STATE.....RI
ZIP.....02919
EXCAVATOR DOING WORK..J.R. VINAGRO CORP

This Dig Safe ticket expires on 03/11/2021

Utilities notified:

COMCAST - MA	CABLE TV	800-778-9140
NATIONAL GRID ELECTRIC-MASS ELEC	ELECTRIC	800-778-9140
NATIONAL GRID GAS-BOSTON	GAS	800-233-5325
QUINCY DPW	DRAINAGE, SEWER, WATER	617-376-1910
VERIZON	TELEPHONE	800-624-9675

THERE MAY BE NON MEMBER UTILITIES IN THE AREA THAT YOU NEED TO NOTIFY.
ELECTRIC AND OTHER UTILITIES MAY NOT MARK LINES THEY DON'T OWN OR MAINTAIN. YOU MAY NEED TO HIRE A
PRIVATE COMPANY TO LOCATE THESE LINES.
THE EXCAVATOR IS RESPONSIBLE TO MAINTAIN MARKS PLACED BY THE MEMBER UTILITIES.

Construction Management Plan

CONSTRUCTION MANAGEMENT PLAN

Ashlar Park
114 Whitwell Street
Quincy, MA 02169

Prepared By: DELLBROOK|JKS, LLC
One Adams Place
859 Willard Street
Quincy, MA 02169

Prepared For: City of Quincy

Date: November 23, 2020

Revision: 1 | 01/20/2021

SECTION 1 | PROJECT SUMMARY

1.1 Project Location

Street Address: 114 Whitwell Street

Coordinates

Latitude/Longitude: 42° 15' 6.65" N, 71° 0' 47.29" W

UTM: 4679701.10 N, 333932.48 E

1.2 Project Team

Owner: FoxRock Whitwell Realty, LLC
1200 Hancock Street, Suite 301
Quincy, MA 02169

Josh Kleinman, AIA, Director of Design & Construction

Architect: Arrowstreet Inc.
10 Post Office Square, Suite 700N
Boston, MA 02169

David Bois, AIA, Principal
Jason King, AIA, Senior Associate

Civil Engineer: Tetra Tech INE – United States Infrastructure Division
20 Cabot Boulevard, Suite 305
Mansfield, MA 02048

Richard D. Alfonso, Vice President
Glenn K. Dougherty, P.E., Senior Project Manager

General Contractor: DELLBROOK | JKS, LLC
One Adams Place
859 Willard Street
Quincy, MA 02169

James Tracey, Executive Vice President
Christopher J. Modica, Senior Project Manager
Timothy Dann, Project Manager
Joel Anifowose, Assistant Project Manager
Ian Briggs, Vice President of Field Operations
Robert Solon, Senior Project Superintendent

1.3 Project Description

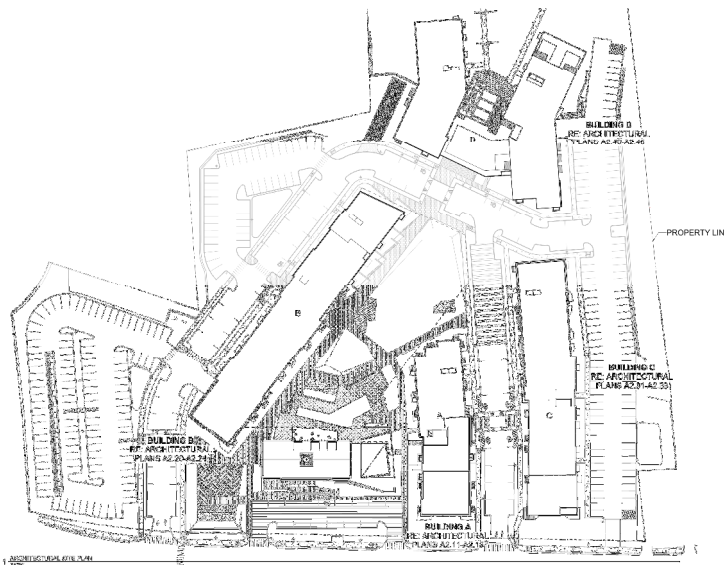
The project consists of the abatement and demolition of the Quincy Medical Center to make way for four (4) residential buildings. The new residential buildings, A, B, C, and D will include 465 apartment units and total 448,292 SF. Building's A and C will each consist of a slab-on-grade with five (5) levels of residential wood framed construction. Building's B and D will each consist of a concrete podium with one (1) level of parking below and five (5) levels of residential wood framed construction above. The project also includes the adaptive re-use and addition to the historic Administration Building to provide 19,500 SF of amenities space. The Administration Building will be connected to the Building B garage via a tunnel at basement level. Please refer to Figure 1 for building areas and unit counts.

Figure 1 | Building Areas & Unit Counts

Building	Gross Area (SF)	Unit Count
A	67,072	65
B	118,849	132
C	103,292	123
D	139,579	145
Admin	19,500	-
	448,292	465

There will be four (4) surface parking lots to accommodate 277 vehicles plus two (2) additional parking spaces in front of each building for handicap use. There will be a main courtyard above the Building B garage with a pool, landscaped areas, fire pits, grilles, and gathering areas. A secondary courtyard will be located behind Building D with access to the Glendale wooded area. A road will encircle the site providing access from Whitwell Street to the residential buildings, main courtyard, and surface parking lots. Please refer to Figure 2 for the layout of the site and buildings.

Figure 2 | Architectural Site Plan



1.4 Project Phasing

The abatement/demolition and construction phasing plans are attached as Exhibit A to this Construction Management Plan. Please refer to Figure 3 for a summary of the phases.

Figure 3 | Project Phases

Phase	Description
0	Abatement & Demolition
1A	Building's B & D Foundations & Podium Decks Admin/Amenity Building, Building A, & Surface Lot A
1B	Building B, Garage, Courtyard, & Surface Lot B
2	Building D, Garage, Surface Lot D, & Open Space Improvements
3	Building C & Surface Lot C

1.5 Leadership in Energy & Environmental Design

The project will be designed to be LEED certifiable with a goal of LEED Gold.

SECTION 2 | PROJECT SCHEDULE

2.1 Construction Schedule

The project duration is expected to be thirty-six (36) months. There will be six (6) months of enabling work followed by thirty (30) months of construction. The enabling phase is expected to start in January 2021 with completion expected in July 2021. The construction phase is expected to begin in July 2021 with final completion expected in February 2024. Please refer to Figure 4 for milestone dates for enabling, construction, and building turn-over.

Figure 4 | Milestone Dates

TASK NAME	START DATE	FINISH DATE
Enabling		
Abatement	01/04/21	04/02/21
Demolition	03/08/21	07/02/21
Construction	05/17/21	02/02/24
Closeout	01/01/24	03/01/24
Building Turn-Over		
Admin/Amenity Building, Building A, & Surface Parking Lot A		02/10/23
Building B, Garage, & Surface Parking Lot B		05/12/23
Building D, Garage, Surface Parking Lot D, & Open Space Improvements		08/11/23
Building C & Surface Parking Lot C		02/02/24
Final Completion		02/02/24

2.2 Work Hours

The work hours for construction activities and deliveries will comply with the Department of Planning and Community Development site plan approval conditions dated December 4, 2019. There will not be any work on Sunday's or federal holidays. In addition, construction equipment will not be started or operated before or after the approved work hours. Please refer to Figure 5 for a list of the approved work hours.

Figure 5 | Work Hours

Monday thru Friday – 7:00 AM to 5:00 PM

Saturday – 8:00 AM to 4:00 PM

Sunday – Work is prohibited unless approved in advance by the Chief of Police

SECTION 3 | SITE LOGISTICS

3.1 Logistics Plans

The preliminary logistics plans are attached as Exhibit B to this Construction Management Plan. The logistics plans are designed to isolate the construction area from the public and provide safe travel for vehicles, bicycles, and pedestrians. After each phase of construction, the site will be consolidated to enclose the remaining construction areas and the logistics plans will be modified accordingly.

The site will be secured using 6'-0" driven post temporary fencing with wind screen. The wind screen will be installed on the fencing along Whitwell Street only. There will be two (2) 24'-0" vehicle gates and two (2) 3'-0" single gates on Whitwell Street. One (1) 3'-0" gate will be located in front of the Administration Building and the other gate will be located in the Southeast corner of the site adjacent to the field office trailer. The 24'-0" vehicle gates will be located on Whitwell Street from the start of abatement and demolition work through the completion of Phase 1A. The vehicle gates will include tracking pads and wheel wash stations to help reduce tracking of dirt and debris on to the city streets. Prior to the start of Phase 1B, one (1) vehicle gate will be moved to the southeast corner of the site and the second vehicle gate will be moved off Whitwell Street on to the loop road adjacent to Building B. The new vehicle gate location in the southeast corner of the site will require a curb cut on Whitwell Street. DELLBROOK|JKS will coordinate the curb cut with the Department of Public Works and submit a Curb Removal Request Form. Upon completion of Phase 1B, the vehicle gate on the loop road will be eliminated and the gate in the southeast corner of the site will be the only gate used to access the site.

3.2 Temporary Facilities

DELLBROOK|JKS will set-up a 24' x 60' office trailer as a temporary field office. The trailer will be in the southeast corner of the site in the parking lot adjacent to Whitwell Street. The field office will have power and data service and include office space for DELLBROOK|JKS staff and a meeting area for project team members.

DELLBROOK|JKS has an agreement with United Site Services Northeast, Inc. to supply and service portable restrooms on all our job sites. DELLBROOK|JKS will provide one (1) restroom unit per ten (10) workers per forty (40) hour work week including hand sanitizer and toilet tissue. The portable restrooms will be re-stocked and cleaned on a regular basis to prevent odor migration.

Please refer to the preliminary site logistics plans attached as Exhibit B for the location of the DELLBROOK|JKS temporary field office.

3.3 Truck & Vehicle Travel Routes

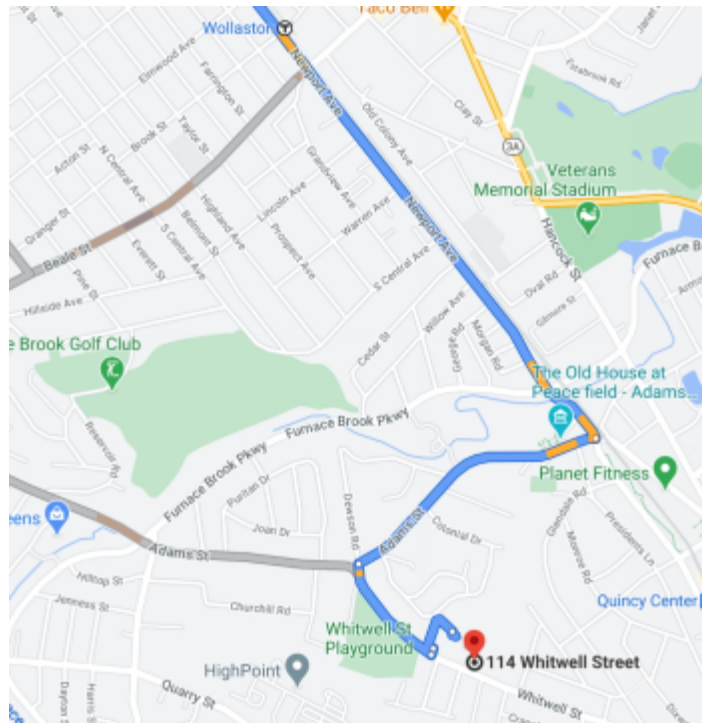
The selection of the proposed truck and vehicle travel routes is based on the following criteria:

- Maximizing use of arterial and collector roads
- Minimizing truck and vehicle travel in residential areas
- Defining specific routes where construction-related truck and vehicle travel is permitted

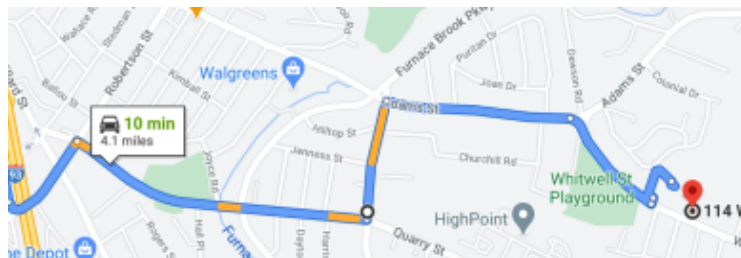
The proposed travel routes are shown in Figure 5. The proposed routes utilize arterial roads such as Interstate 93 and collector roads for travel to and from the site. In addition, the proposed routes minimize travel time on residential city streets. DELLBROOK|JKS will document the permitted travel routes in all subcontractor agreements.

Figure 6 | Travel Routes

Neponset Avenue to Adams Street to Whitwell Street



Quarry Street to Common Street to Adams Street to Whitwell Street



Burgin Parkway to Hannon Parkway to Granite Street to Whitwell Street



3.4 Material & Equipment Deliveries

DELLBROOK|JKS will prohibit material and equipment deliveries prior to 7:00 AM. Every effort will be made to schedule deliveries during off-peak hours whenever possible. If deliveries are scheduled during peak hours, DELLBROOK|JKS will manage the deliveries in a manner that minimizes disruption to pedestrians and vehicles. Street closures will be avoided. If a full or partial street closure is needed, the closure will be limited to off-peak hours and a police detail will be used if required by the City. Truck queuing will only be allowed on site. Under no circumstances will truck queuing be allowed on Whitwell Street or other city streets. All deliveries will be unloaded on-site. DELLBROOK|JKS will provide secure laydown areas for materials, equipment, tools, and supplies.

3.5 Parking

Parking will be prohibited on all city streets and roads in the vicinity of the site. DELLBROOK|JKS will provide on-site parking for their own personnel, subcontractors, and visitors. Also, DELLBROOK|JKS will encourage subcontractors to implement car/vanpool programs and/or use public transportation to reduce construction-related traffic and on-site parking needs. The project specific parking requirements and restrictions will be documented in all subcontractor agreements.

3.6 Perimeter Protection & Public Safety

DELLBROOK|JKS will employ the following best practices to ensure safe pedestrian and vehicle travel along the perimeter of the site:

- Submission of Traffic and Pedestrian Management Plans for work in the public way. The plans will identify hazards and appropriate controls to coordinate vehicle and pedestrian routing with construction activities

- Separating construction areas from pedestrian and vehicle traffic using 6'-0" driven post temporary construction fencing and/or jersey barriers
- Installing safety and directional/wayfinding signage and modifying the signage as site conditions change
- Installing temporary site lighting when street lighting is impacted by construction
- Installing sidewalk protection. If sidewalk protection is required, it will be installed in a manner that minimizes the impact to pedestrian and vehicle flow
- Install visible stop lines and caution signs at locations where construction-related trucks and vehicles cross sidewalks

3.7 Police Details

Police details will be requested from Quincy Police Department for the following activities if required by the City:

- Work in the public way
- Control of pedestrian, bicycle, and vehicle conflicts with construction-related trucks and vehicles
- Delivery of materials and equipment that prohibit normal traffic flow and pedestrian safety for an extended period of time

3.8 Site Security

DELLBROOK|JKS will employ best practices to secure the site. The site security measures will be maintained for the duration of the project and include the following:

- Temporary construction fencing to enclose the site
- Security signage posted at access gates, along the fence line on Whitwell Street, and at other locations as needed
- Visitors check-in at the DELLBROOK|JKS field office prior to accessing the site
- Cameras monitoring at access gates
- Perimeter video surveillance monitoring

3.9 Snow Removal

DELLBROOK|JKS will be responsible for snow and ice removal on the site and in public areas affected by construction. Snow from plowing operations will be stored on-site. Under no circumstances will snow be disposed of on public property or neighboring private properties. Snow piles will be inspected on a regular basis to remove debris and monitor run-off from melting snow and ice.

SECTION 4 | ENVIRONMENTAL CONTROLS

4.1 Storm Water Pollution Prevention Plan (SWPPP)

DELLBROOK|JKS will comply with the Storm Water Pollution Prevention Plan (SWPPP). DELLBROOK|JKS will employ the following best practices for erosion and sedimentation control, temporary stormwater management, and site stabilization:

- Inspecting erosion and sedimentation control measures weekly and within twenty-four (24) hours of a rain event
- Stabilizing critical areas subject to erosion immediately following initial disturbance or rough grading
- Stabilizing disturbed areas that will remain exposed for greater than thirty (30) days
- Grading the site to divert stormwater run-off to erosion and sediment control facilities
- Locating stockpiles a minimum of 50'-0" away from drainage facilities, slopes, paved surfaces, and roadways
- Installation of hay bales and silt fence at the base of all stockpiles
- Installation of stabilized construction entrances
- Installation of hay bales and silt fence along the perimeter of the site
- Identification and protection of existing stormwater inlets
- Designation and containment of concrete washout areas
- Regular cleaning of paved roadways

Prior to any land disturbance activities, DELLBROOK|JKS will implement erosion and sediment control measures and review these measures with the City and/or its designated representative.

4.2 Construction Trash & Debris

DELLBROOK|JKS will install roll-off dumpsters at various locations on the site based on the phasing and progress of the work. The dumpsters will be located away from emergency access routes. Trash chutes will be used to remove construction debris from the buildings. DELLBROOK|JKS will not allow trash and debris above the dumpsters' fill line and the dumpsters will be swapped out on a regular basis. All dumpsters will be tarped prior to leaving the site to prevent trash and debris from falling or blowing on to city streets or neighboring properties.

4.3 Rodent Control

DELLBROOK|JKS has engaged Ladybug Pest Control Services, Inc. (Ladybug Pest Control) for rodent and pest control services. They will provide all labor and materials necessary to perform these services in accordance with all applicable codes, Federal, State and Local laws and ordinances, EPA regulations, and all authorities having jurisdiction. Ladybug Pest Control is licensed and insured to provide rodent and pest control services in the State of Massachusetts. Please refer to Figure 7 for the contact information, license number, and scope of services for Ladybug Pest Control.

Figure 7 | Rodent Control Services

Ladybug Pest Control Services, Inc.

44 Billings Road
North Quincy, MA 02171
Tel: 617-745-0044
Fax: 617-745-0808

Linda O'Brien-Lindsay, Chief Executive Officer
E-Mail: Linda@Ladybugpcs.com

License #CC-0025279
Expiration: 12/31/2021

Service Dates: February 22, 2021 – February 2, 2024

Service Length: 155 Weeks

Number of Bait Stations: Phase 0 - 160 EA

Phase 1A - 160 EA

Phase 1B - 150 EA

Phase 2 - 120 EA

Phase 3 – 60 EA

Location: Every 20'-0" around the perimeter of the site delineated by the location of the temporary construction fencing

Frequency of Monitoring: Every ten (10) business days

Note: The quantity of bait stations and frequency of monitoring will be increased as needed based on the level of rodent and pest activity

The Rodent and Pest Management Plan will be implemented on February 22, 2021, ten (10) business days prior to the start of building demolition on March 8, 2021. The plan will remain effect until February 2, 2024, twenty (20) business days after substantial completion on January 5, 2024. The rodent and pest management plan includes the following:

- 160 PROTECTA Evo tamper-resistant bait stations manufactured by Bell Laboratories, Inc. The bait stations will be placed every 20'-0" around the perimeter of the site and secured to the temporary construction fencing. The site limits will change after each phase of work; however, the bait stations will continue to be placed every 20'-0" around the perimeter. The site limits for each phase of work are delineated by the location of the temporary construction fencing on the attached Logistics Plans
- Contrac Blox single-feeding anticoagulant rodenticide blocks manufactured by Bell Laboratories, Inc. An uninterrupted ten (10) day supply of fresh bait will be provided in each bait station. The quantity of rodenticide blocks necessary to provide an uninterrupted ten (10) day supply will be based on the manufacturer's product information
- Inspection and maintenance of bait stations every ten (10) business days and re-baiting as needed. Inspection and maintenance services will be increased as needed based on the level of rodent and pest activity observed during treatment, changes in rodent populations, and rodent related complaints due to demolition and construction activities
- On-site logbook to document all inspection and maintenance visits. The logbook will be available for inspection by a representative of the Quincy Health Department and/or Inspectional Services Department. The logbook will include a diagram of the property showing the locations of all bait stations, MSDS for the pesticides being used, and license and insurance information for Ladybug Pest Control
- Rodent and pest control reports within five (5) business days after treatment documenting the location of treatments, percentage of bait consumed, and any rebaiting or rodent control related activities

DELLBROOK|JKS will take the following actions to mitigate rodent and pest problems on-site.

- Review job site sanitation rules with workers prior to starting work on site. Review and reinforce the rules weekly at Foreman and Subcontractor meetings for the duration of the project
- Monitor and clean-up construction and laydown areas daily. Maintain the areas free of trash and debris
- Monitor and clean-up the perimeter of the site on a regular basis. Maintain the perimeter free of trash and debris

- Provide an adequate amount of refuse containers with tight fitting lids throughout the site. Enforce proper use of refuse containers to prevent attraction of rodents and pests
- Provide refuse containers with tight fitting lids at lunch and break areas. Empty and clean the refuse containers daily
- Prohibit food in the buildings at all times. Consolidate lunch and break areas to designated locations on the exterior of the buildings

4.4 Dust Control & Air Quality

DELLBROOK|JKS will submit a Dust Control Plan (DCP) to the Quincy Health Department for review and approval prior to any site activity. The DCP will include best practices and mitigation measures available to DELLBROOK|JKS to help reduce dust and other construction-related airborne material impacts including the following:

- Alternate methods of construction
- Wetting exposed earth areas
- Covering dust producing materials
- Limiting construction activities during sustained high wind conditions
- Seeding, covering, wetting, and/or otherwise treating disturbed soil areas
- Minimizing storage and relocation of spoils and debris on-site
- Installing wind screen on temporary construction fencing
- Covering all trucks transporting dust-producing materials and debris
- Removing loose and unsecured materials and debris from empty trucks prior to leaving the site
- Reducing truck speeds on unpaved surfaces
- Installing and maintaining tracking pads and wheel wash stations at access/egress gates
- Cleaning/sweeping Whitwell Street at the access/egress gate locations when soil material and debris are present as a result of the work
- Modifying the construction schedule when weather conditions can lead to dust impacts

4.5 Noise Control

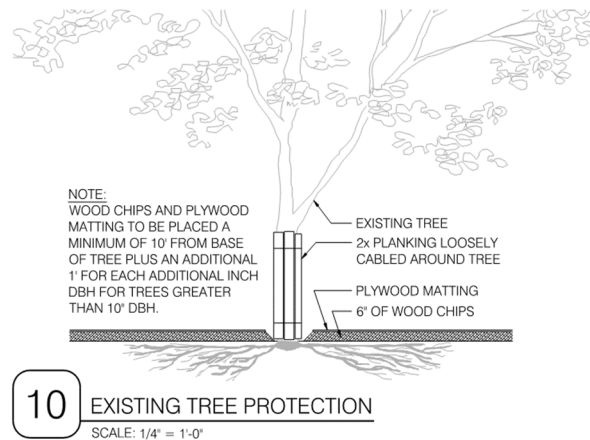
DELLBROOK|JKS is committed to mitigating construction noise impacts. However, increased sound levels are an inherent consequence of demolition and construction activities. These activities require the use of equipment that will increase sound levels in and around the site. The best practices and mitigation measures available to DELLBROOK|JKS to help reduce noise impacts include the following:

- Using less noisy alternate methods of construction
- Prohibiting material deliveries and noise generating activities prior to 7:00 AM
- Prohibiting truck and vehicle idling prior to 7:00 AM. After 7:00 AM, limiting truck and vehicle idling to no more than five (5) minutes
- Using equipment with manually adjusted or self-adjusting and directional back-up alarms
- Installing wind screen on temporary construction fencing to act as a sound barrier to muffle noise at street level
- Locating equipment as far as possible from bordering residential properties if feasible
- Applying noise deadening materials to trash chutes
- Using shields, shrouds, or intake and exhaust mufflers on vehicles and equipment
- Using electric equipment in lieu of diesel-powered equipment
- Using hydraulic tools in lieu of pneumatic impact tools
- Fitting air-powered equipment with pneumatic exhaust silencers

4.6 Tree Protection

There are several trees along the property line scheduled to remain during construction. DELLBROOK|JKS will protect these trees in their current locations. Please refer to Figure 8 for tree protection details. Also, there is a “Memorial” tree and brick surround on the Western side of the site that will be removed and re-planted in a new location during the landscaping phase of the project.

Figure 8 | Tree Protection



SECTION 5 | HEALTH & SAFETY

5.1 Site-Specific Safety Plan

A Site-Specific Safety Plan (SSSP) will be developed to ensure all DELLBROOK|JKS team members fully understand the scope of work, safety hazards, and control measures associated with the project. The SSSP is intended to be an evolving document that will be updated as necessary to address conditions and hazards that develop throughout the life of the project.

Our goal is to complete the project injury and incident free. To achieve this goal, DELLBROOK|JKS will contract with subcontractor's who prioritize the health and safety of their employees. These subcontractors will be required to pro-actively manage their own health and safety to ensure they are maintaining a place of employment that is free from recognizable hazards. In addition, they will be required to comply with the following best practices:

- Submit a Site-Specific Safety Plan to DELLBROOK|JKS
- Attend a Safety Preconstruction Meeting two (2) weeks prior to starting work on-site
- Attend a Safety Orientation meeting with DELLBROOK|JKS before they will be allowed to work on-site
- Designate a safety representative who will be responsible for the Health and Safety Program of the subcontractor and any lower tier subcontractors working on-site
- Participate in Joint Safety/Production Meetings with DELLBROOK|JKS

- Perform regular site safety inspections for their scope of work and correct any and all identified unsafe acts and/or conditions
- Develop an Activity Hazard Analysis for tasks that are unique or not performed on a regular basis

5.2 COVID-19 Protocols

DELLBROOK|JKS will follow the most recent version of the Sector Specific Workplace Safety Standards for Construction Sites dated July 24, 2020 to address COVID-19. The policies and procedures DELLBROOK|JKS will implement include the following:

- All staff, visitors, and workers will be screened prior to each shift. “Days of the Week” wrist bands will be utilized to identify workers who have been screened
- All staff, visitors, and workers will be required to wear face coverings at all times while on-site
- Workers will be prohibited from taking breaks or lunch together unless they can maintain 6’-0” of distance between themselves
- Meetings will be held remotely via Microsoft Teams or Zoom whenever possible. If a face to face meeting is required, face coverings will be worn at all times and 6’-0” of distance will be maintained
- Any construction tasks that require workers to be closer than 6’-0” will require face coverings, masks, and safety glasses

SECTION 6 | COORDINATION WITH PUBLIC AGENCIES

6.1 DELLBROOK|JKS Contact Information

Robert Solon, Senior Superintendent, and Christopher Modica, Senior Project Manager, will be the primary contacts for DELLBROOK|JKS. They will be responsible for executing the work in a manner consistent with the measures identified in this Construction Management Plan (CMP). DELLBROOK|JKS will post contact information for all team members in the field office. The contact list will be updated as new members are added to the team. The contact information for the current team members is listed below.

NAME	ROLE	PHONE	E-MAIL
Christopher Modica	Senior Project Manager	617-874-6520	cmodica@dellbrookjks.com
Tim Dann	Project Manager	781-820-0981	tdann@dellbrookjks.com
Joel Anifowose	Assistant Project Manager	617-420-3500	janifowose@dellbrookjks.com
Robert Solon	Senior Superintendent	978-604-7772	rsolon@dellbrookjks.com
William Kopellas	Project Engineer	617-347-0574	wkopellas@dellbrookjks.com

6.2 Public Notification

Prior to starting work DELLBROOK|JKS will meet with City officials to review the details of this construction management plan and all aspects of the project. Also, FoxRock Whitwell Realty and DELLBROOK|JKS will develop

a communication plan for notifying the community of construction progress, milestones, and logistical changes that will affect the flow of vehicles and pedestrians on Whitwell Street.

6.3 Permitting

DELLBROOK|JKS will obtain all necessary federal, state, and local permits and approvals and file all notifications required for the project. Please refer to Figure 9 for a list of permits and notifications that apply to this project.

Figure 9 | Permits & Notifications

Department/Agency	Description
Inspectional Services	Demolition Permit
	Site & Foundation Permit
	Building Permit
	Occupancy Permit
Fire Department	Demolition Permit
	Fire Prevention Program Manager Form
	Hot Work Permit
	Aboveground Storage Tank Removal Permit
	Underground Storage Tank Removal Permit
Public Works	Street Opening Permit
	Sewer & Drain Connection Permit
	Stormwater Management Permit
	Assignment of Street Number
Health	Swimming Pool Construction Permit
Environmental Protection (DEP)	AQ04 - Demolition/Abatement Notification
	AQ06 - Construction/Demolition Notification
Environmental Protection (EPA)	Construction General Permit (CGP) Notice of Intent (NOI)
Dig Safe	Notice of Excavation

6.4 Coordination with City Departments

DELLBROOK|JKS will coordinate demolition and construction activities with city departments in accordance with the Department of Planning and Community Development site plan approval conditions dated December 4, 2019. At any point during construction, the city and/or the city's designated representative will be allowed to enter the site for the purpose of making observations as to the compliance with the conditions of approval. Please refer to Figure 10 for a list of activities that will be coordinated with the city.

Figure 10 | Coordination with City Departments

Condition No.	Activity	Department	Milestone
4	Submission of Construction Management Plan (CMP)	Traffic Engineer	One (1) month prior to Construction
	Attendance at regularly scheduled meetings to coordinate construction activities		As scheduled
	Coordination of transportation-related construction impacts		Prior to work that will impact public transportation
	Submission of Traffic & Pedestrian Management Plan		Prior to work in the public right-of-way
6	Inspection of storm management system construction	Designated Representative	Multiple points during system construction
14	Inspection of erosion controls	Designated Representative	One (1) week prior to land disturbance activities
15	Observation of site construction for compliance w/approved Site Plans & conditions of approval	Designated Representative	Any point during construction
17	Written description of how planting soil will be manufactured from on-site components	Inspectional Services	Submission of building permit application
18	Description of irrigation system	Public Works	Prior to system installation
19	Notification of start of landscaping work	Designated Representative	One (1) week prior to starting landscaping work
21	Inspection of landscaping work	Designated Representative	Multiple points during landscaping work
31	Submission of Rodent Control Plan	Health	Prior to site activity
32	Submission of Dust Control Plan	Health	Prior to site activity
34 & GC-8	Consultation to review abatement work and monitoring measures	Health	Prior to starting abatement work
GC-7	Submission of Construction Management Plan (CMP)	Inspectional Services	Submission of demolition & building permit applications

6.5 Identification of Existing Underground Utilities

DELLBROOK|JKS will provide notice to the Dig Safe Center at least 72 hours but no more than 30 days prior to the start of excavation work in accordance with the “Dig Safe” law. Prior to giving notice, DELLBROOK|JKS will direct the earthwork contractor to pre-mark not more than 500’ of the proposed excavation with white paint and/or wood stakes. Within 72 hours of notification, the member utility companies will mark the location of their existing underground utilities in the vicinity of the pre-marked excavation.

6.6 Demolition & Construction Fire Safety

DELLBROOK | JKS will submit NFPA 241 Fire Safety Plans to the Quincy Fire Department to detail the measures that will be taken to ensure code compliance and safe conditions during demolition of the Quincy Medical Center and construction of the Ashlar Park project. The following list outlines some of the measures that will be implemented by DELLBROOK | JKS during demolition and construction.

- Demolition
 - The perimeter of the site will be secured with fencing. Locked gates will be located along Whitwell Street. Key boxes will be provided for QFD use in case of an emergency
 - Construction personnel will be on-site from 6:30 AM – 3:30 PM. A security guard will monitor the site during off-hours from 3:30 PM – 6:30 AM
 - Four (4) temporary manual dry standpipes will be provided around the building. Four (4) fire department connections will be provided to serve the temporary standpipes
 - The building will be separated into three (3) sections for demolition. The building sections will be separated with temporary partitions consisting of fire-retardant treated plywood securely fastened to the building
 - Flammable and combustible liquids will be drained from tanks and machinery reservoirs in a safe manner and removed from the building prior to demolition operations
 - Prior to each phase of demolition, all utilities feeding the section of the building to be demolished will be de-energized/drained, cut, capped, and made safe
 - A minimum of one (1) exit stair will be available from each wing of the building for egress at all times
 - Regular site visits will be conducted with QFD to ensure the department is familiar with the changing site conditions
- Construction
 - The buildings **will not** be supplied with automatic sprinkler systems during construction. Each building will be provided with one (1) temporary standpipe located within an egress stairwell. The standpipe installation will follow the vertical progression of the building and will be capped at the top of the stairwell
 - The buildings **will not** be supplied with an active fire alarm system during construction. Fire alarm reporting will be conducted via air horns located on each floor level. The phone number for QFD will be posted throughout the site to alert of a fire condition
 - Fire extinguishers will be provided on all levels of each building
 - A minimum of one (1) exit stair will be available from each wing of the building for egress at all times
 - Construction debris will be removed from each building regularly. At no times will large quantities of construction debris be allowed to accumulate
 - Permits will be filed with QFD for the storage of flammable and combustible liquids, gases, and solids. Flammable and combustible liquids will be stored in accordance with NFPA 30 and QFD requirements. The storage of flammable and combustible materials, including all subcontractor materials, will be coordinated with DELLBROOK | JKS
 - Hot work operations will be conducted in accordance with NFPA 51. All hot work will be approved by QFD and DELLBROOK | JKS prior to beginning work
 - Smoking will not be permitted within 50'-0" of buildings being constructed. Smoking will be permitted in designated smoking areas only. These areas will be provided with receptacles for safe disposal of smoking materials
 - Regular site visits will be conducted with QFD to ensure the department is familiar with the changing site conditions

EXHIBIT A

Abatement & Demolition Phasing Plan - Phase 0

ASHLAR PARK



NOTES

Construction Phasing Plan
ASHLAR PARK

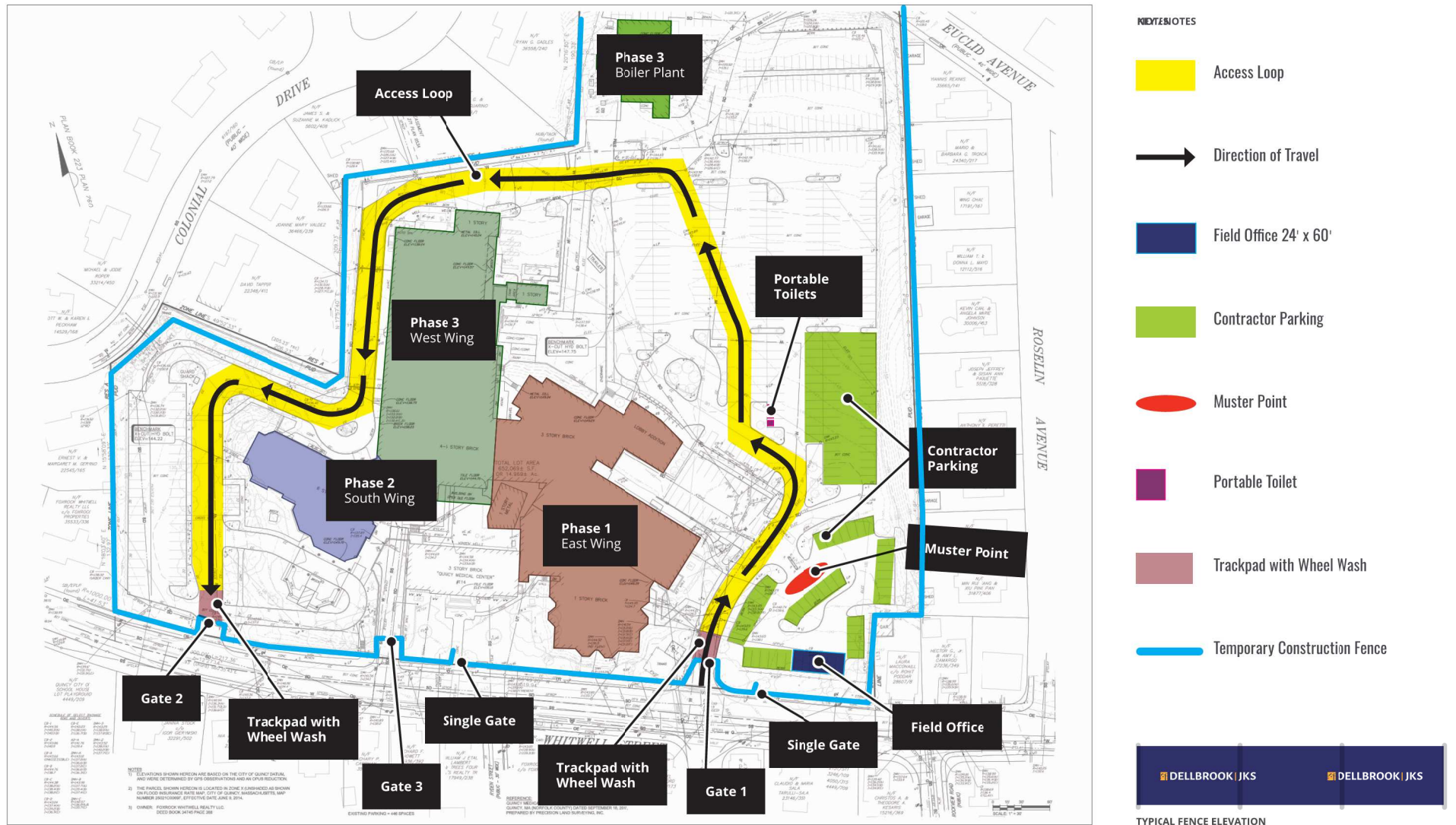


NOTES

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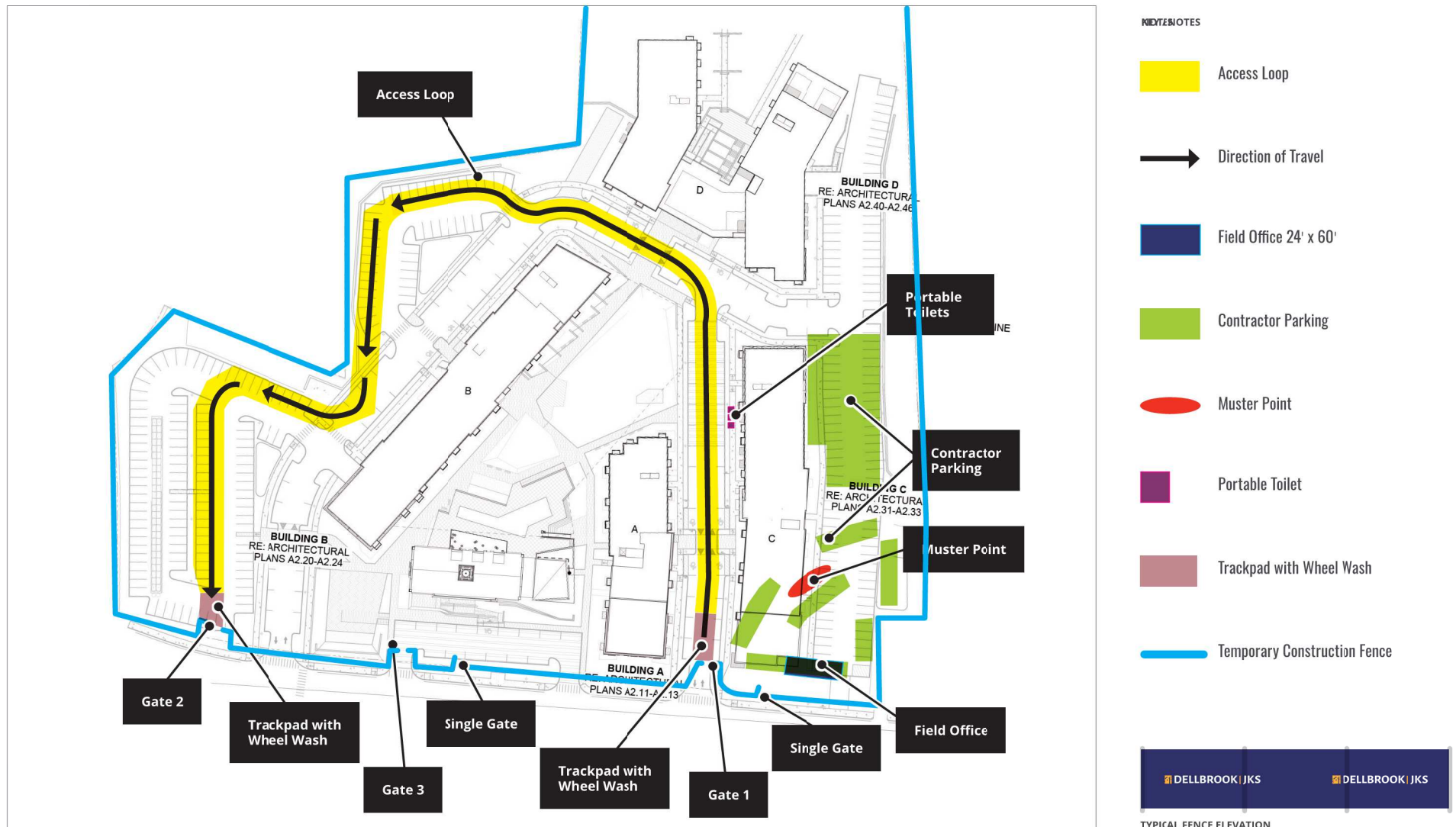
EXHIBIT B

Logistics - Phase 0 Abatement & Demolition



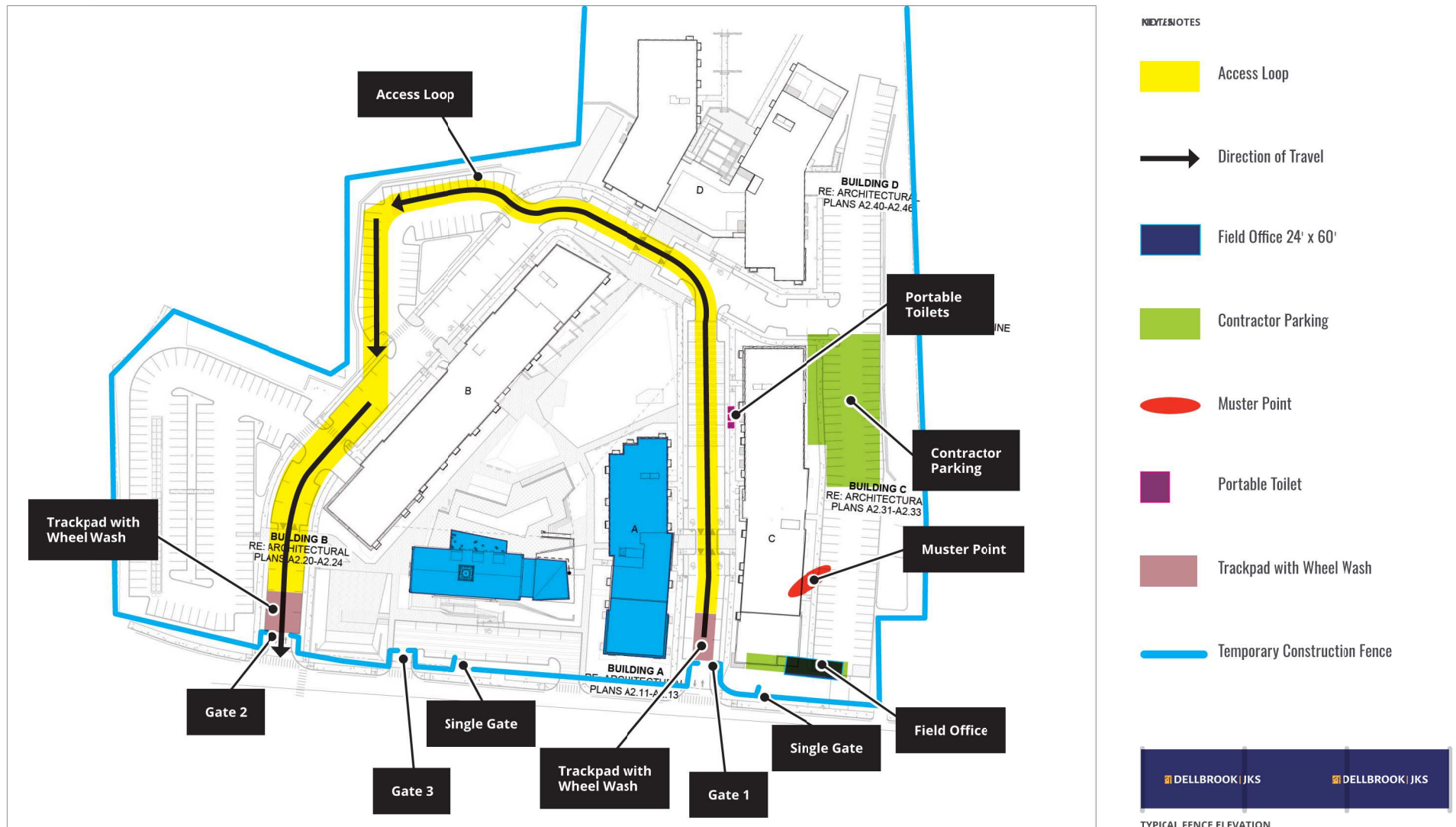
Logistics - Phase 1A Construction of Building's B & D Garage Foundations & Podium Decks

ASHLAR PARK

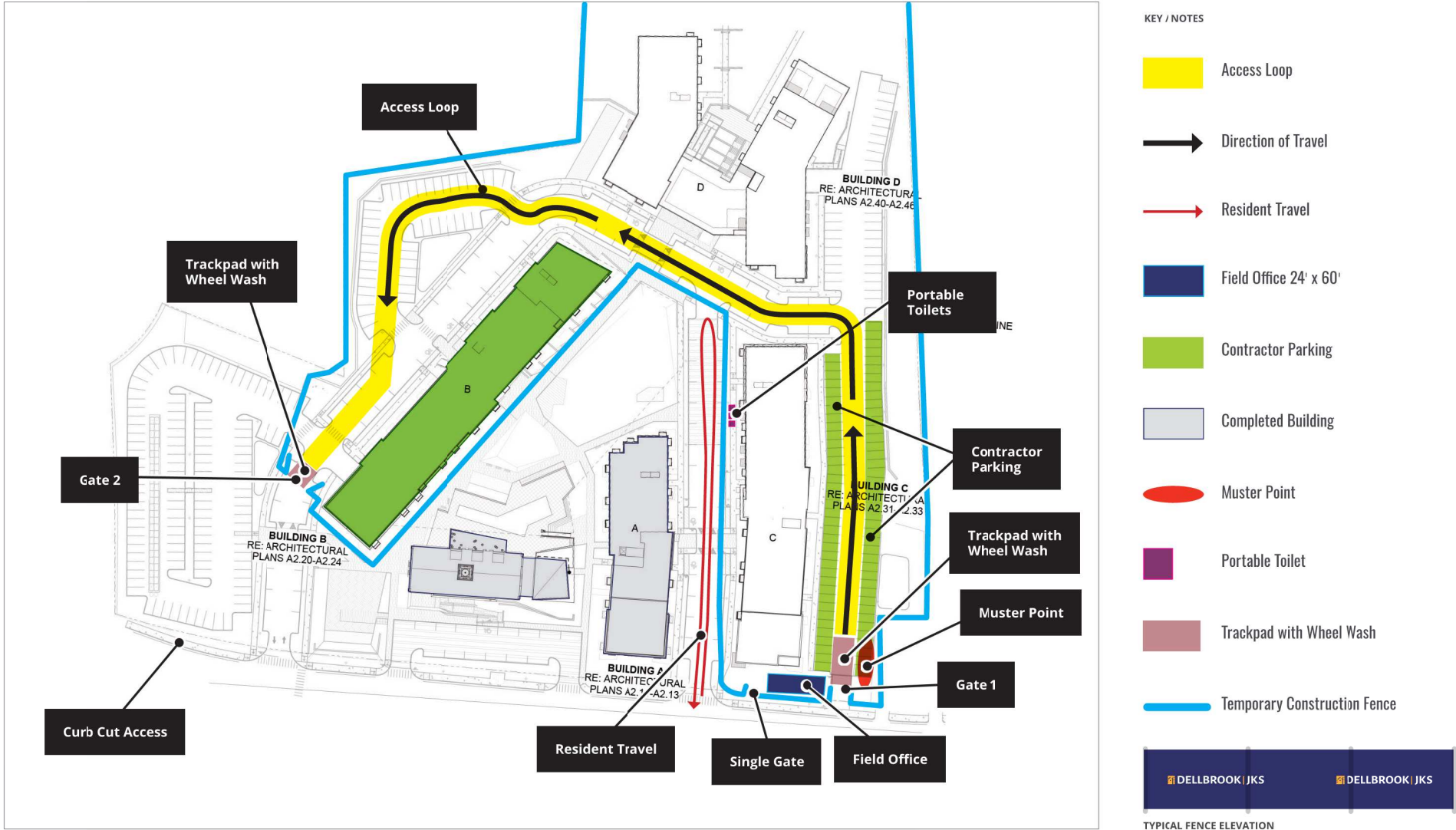


Logistics - Phase 1A Construction of Building A with Surface Lot & Admin/Amenity Building

ASHLAR PARK

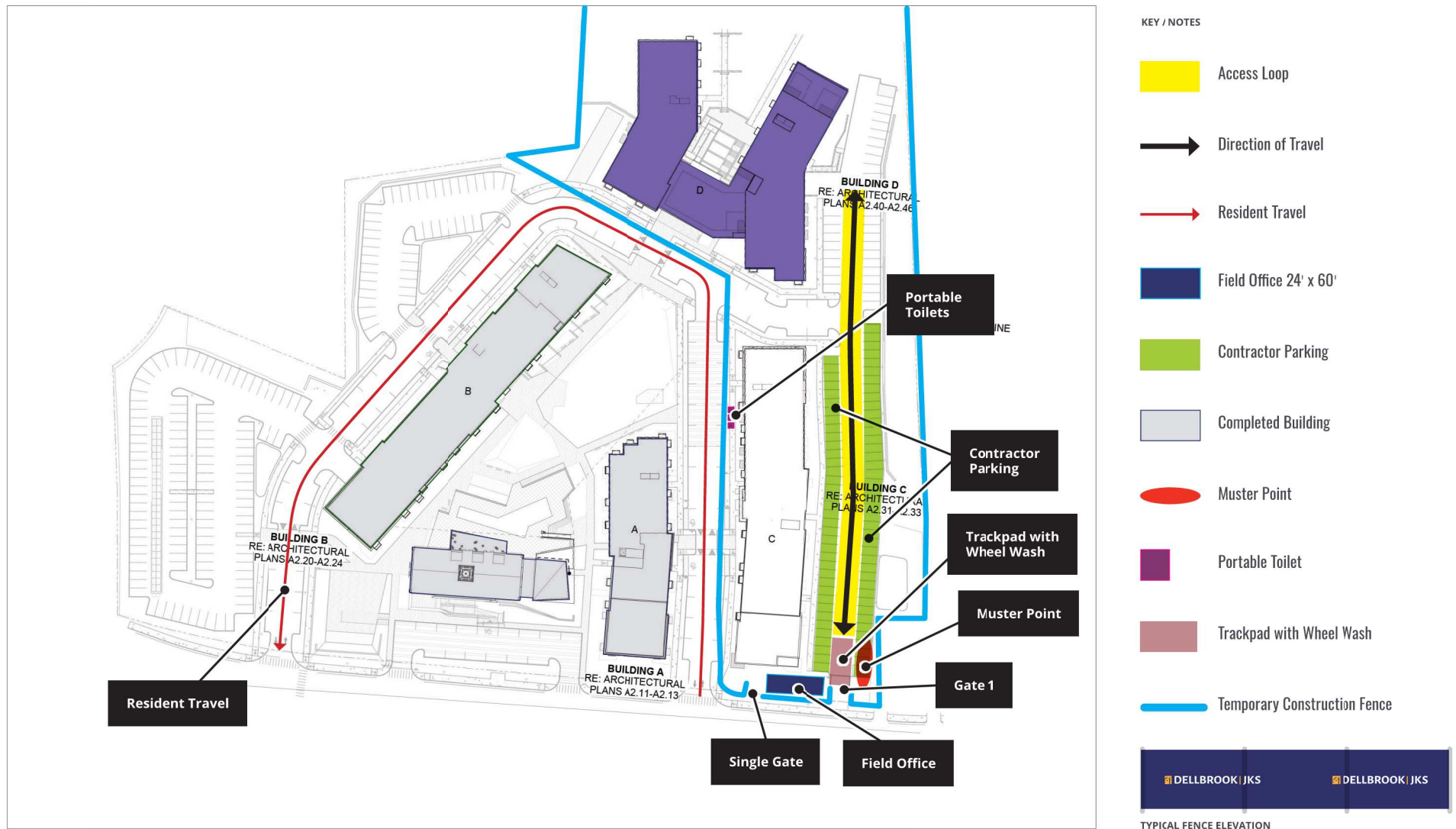


Logistics - Phase 1B Construction of Building B & Garage Finishes
ASHLAR PARK



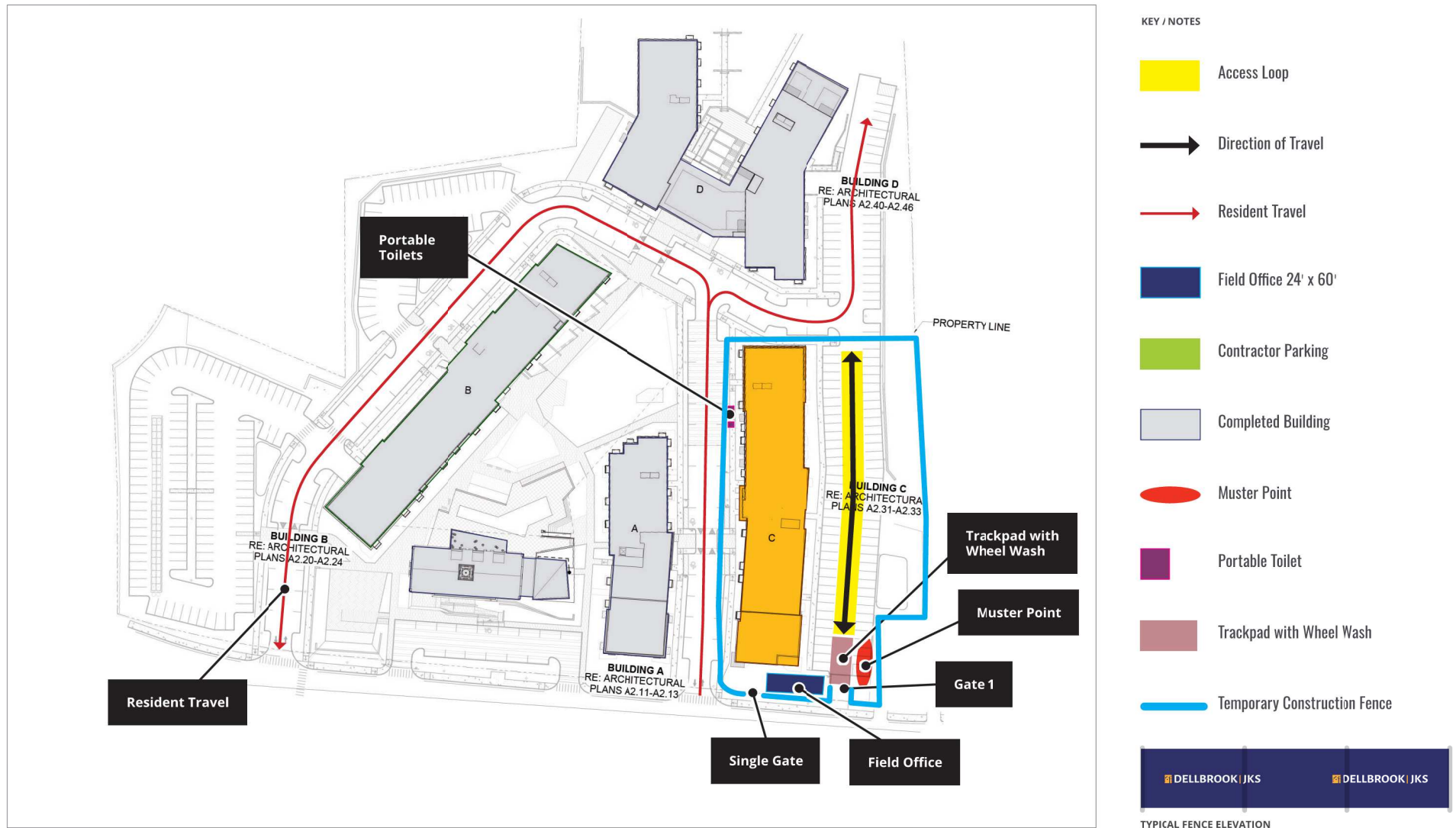
Logistics - Phase 2 Construction of Building D with Garage & Open Space Improvements

ASHLAR PARK



Logistics - Phase 3 Construction of Building C with Surface Lot

ASHLAR PARK



Health Department Package

1. Rodent Control Plan
2. Dust Control Plan
3. Phase 1 Abatement Close Out Report
4. DEP Notification

RODENT CONTROL PLAN

Ashlar Park
114 Whitwell Street
Quincy, MA 02169

Prepared By: DELLBROOK|JKS, LLC
One Adams Place
859 Willard Street
Quincy, MA 02169

Prepared For: City of Quincy

Date: January 8, 2021

Revision: 1 | 01/13/2021

SECTION 1 | PROJECT SUMMARY

1.1 Project Location

Street Address: 114 Whitwell Street

Latitude/Longitude Coordinates: 42° 15' 6.65" N, 71° 0' 47.29" W

Universal Transverse Mercator Coordinates: 4679701.10 N, 333932.48 E

1.2 Project Team

Owner: FoxRock Whitwell Realty, LLC
1200 Hancock Street, Suite 301
Quincy, MA 02169

Josh Kleinman, AIA, Director of Design & Construction

Architect: Arrowstreet Inc.
10 Post Office Square, Suite 700N
Boston, MA 02169

David Bois, AIA, Principal
Jason King, AIA, Senior Associate

Civil Engineer: Tetra Tech INE – United States Infrastructure Division
20 Cabot Boulevard, Suite 305
Mansfield, MA 02048

Richard D. Alfonso, Vice President
Glenn K. Dougherty, P.E., Senior Project Manager

General Contractor: DELLBROOK | JKS, LLC
One Adams Place
859 Willard Street
Quincy, MA 02169

James Tracey, Executive Vice President
Christopher J. Modica, Senior Project Manager
Ian Briggs, Vice President of Field Operations
Robert Solon, Senior Project Superintendent

1.3 Construction Schedule

The project duration is expected to be thirty-six (36) months. There will be six (6) months of enabling work followed by thirty (30) months of construction. The enabling phase is expected to start in January 2021 with completion expected in July 2021. The construction phase is expected to begin in July 2021 with final completion expected in February 2024. Please refer to Figure 3 for milestone dates for enabling, construction, and building turn-over.

Figure 3 | Milestone Dates

TASK NAME	START DATE	FINISH DATE
Enabling		
Abatement	01/04/21	04/16/21
Demolition	03/08/21	07/09/21
Construction	05/17/21	02/02/24
Closeout	01/01/24	03/01/24
Building Turn-Over		
Admin/Amenity Building, Building A, & Surface Parking Lot A		02/10/23
Building B, Garage, & Surface Parking Lot B		05/12/23
Building D, Garage, Surface Parking Lot D, & Open Space Improvements		08/11/23
Building C & Surface Parking Lot C		02/02/24
Final Completion		02/02/24

SECTION 2 | RODENT CONTROL

2.1 Rodent & Pest Control Operator

DELLBROOK | JKS has engaged Ladybug Pest Control Services, Inc. (Ladybug Pest Control) to provide rodent and pest control services. Ladybug Pest Control is licensed and insured to provide these services in the State of Massachusetts.

Ladybug Pest Control Services, Inc.

44 Billings Road
North Quincy, MA 02171
Tel: 617-745-0044
Fax: 617-745-0808

Linda O'Brien-Lindsay, Chief Executive Officer
E-Mail: Linda@Ladybugpcs.com

License #CC-0025279
Expiration: 12/31/2021

2.2 Scope of Services

Ladybug Pest Control will provide all labor, materials, equipment, tools, services, supervision, and transportation necessary to perform rodent and pest control services in accordance with all applicable codes, Federal, State and Local laws and ordinances, EPA regulations, and all authorities having jurisdiction. The rodent and pest control scope of services includes the following:

Service Dates: February 22, 2021 – February 2, 2024

Service Length: 155 Weeks

Number of Bait Stations: Phase 0 - 160 EA

Phase 1A - 160 EA

Phase 1B - 150 EA

Phase 2 - 120 EA

Phase 3 – 60 EA

Location: Every 20'-0" around the perimeter of the site delineated by the location of the temporary construction fencing

Frequency of Monitoring: Every ten (10) business days

Note: The quantity of bait stations and frequency of monitoring will be increased as needed based on the level of rodent and pest activity

2.3 Rodent & Pest Management Plan

The Rodent and Pest Management Plan will be implemented on February 22, 2021, ten (10) business days prior to the start of building demolition on March 8, 2021. The plan will remain effect until February 2, 2024, twenty (20) business days after substantial completion on January 5, 2024. The rodent and pest management plan includes the following:

- Provide 160 PROTECTA Evo tamper-resistant bait stations manufactured by Bell Laboratories, Inc. The bait stations will be placed every 20'-0" around the perimeter of the site and secured to the temporary construction fencing. The site limits will change after each phase of work; however, the bait stations will continue to be placed every 20'-0" around the perimeter. The site limits for each phase of work are delineated by the location of the temporary construction fencing on the attached Logistics Plans
- Provide Contrac Blox single-feeding anticoagulant rodenticide blocks manufactured by Bell Laboratories, Inc. An uninterrupted ten (10) day supply of fresh bait will be provided in each bait station. The quantity of rodenticide blocks necessary to provide an uninterrupted ten (10) day supply will be based on the manufacturer's product information
- Inspect and maintain bait stations every ten (10) business days and re-bait stations as needed. Inspection and maintenance services will be increased as needed based on the level of rodent and pest activity observed during treatment, changes in rodent populations, and rodent related complaints due to demolition and construction activities
- Provide and maintain a logbook on-site to document all inspection and maintenance visits. The logbook will be available for inspection by a representative of the Quincy Health Department and/or Inspectional Services Department. The logbook will include a diagram of the property showing the locations of all bait stations, MSDS for the pesticides being used, and license and insurance information for Ladybug Pest Control
- Provide rodent and pest control reports within five (5) business days after treatment documenting the location of treatments, percentage of bait consumed, and any rebaiting or rodent control related activities

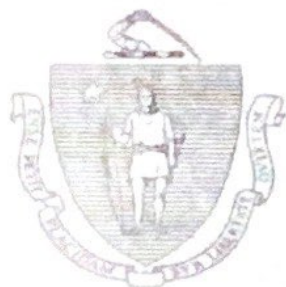
2.4 Summary of Actions to Prevent Rodent & Pest Problems On-Site

DELLBROOK|JKS will take the following actions to mitigate rodent and pest problems on-site.

Action	Description
1	Review job site sanitation rules with workers prior to starting work on site. Review and reinforce the rules weekly at Foreman and Subcontractor meetings for the duration of the project

- 2 Clean-up construction and laydown areas daily. Maintain the areas free of trash and debris
- 3 Clean-up the perimeter of the site on a regular basis. Maintain the perimeter free of trash and debris
- 4 Provide an adequate amount of refuse containers with tight fitting lids throughout the site. Enforce proper use of refuse containers to prevent attraction of rodents and pests
- 5 Provide refuse containers with tight fitting lids at lunch and break areas. Empty and clean the refuse containers daily
- 6 Prohibit lunch and break areas inside buildings. Consolidate lunch and break areas to designated locations on the exterior of the buildings

COMMONWEALTH OF MASSACHUSETTS



Department of Agricultural Resources

PESTICIDE CERTIFICATION/LICENSE

LINDA O'BRIEN-LINDSAY

44 BILLINGS ROAD SUITE B

NORTH QUINCY, MA 02171

License Type

Commercial

License Number

CC-0025279

Category/Subcategory

43, 41

Date Issued

12/26/2020

Expiration Date

12/31/2021

Sign Here

Linda O'Brien-Lindsay



LADYB-1

OP ID: BC

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

06/18/2020

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER DPS Insurance Group, Inc. 400 Crown Colony Dr., Ste 103 Quincy, MA 02169 Daniel P Sullivan		617-479-5500		CONTACT NAME: Elizabeth Saville PHONE (A/C, No, Ext): 617-479-5500 FAX (A/C, No): 617-479-8761 E-MAIL ADDRESS: ESaville@dpsinsurancegroup.com	
INSURED Ladybug Pest Control Services Linda O'Brien-Lindsay 44B Billings Rd North Quincy, MA 02171				INSURER(S) AFFORDING COVERAGE INSURER A: Philadelphia Insurance Company INSURER B: Arbella Insurance INSURER C: Wesco Insurance Co INSURER D: Starstone National Ins. Co INSURER E: INSURER F:	
				NAIC # 41360	

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR			PHPK2138319	05/24/2020	05/24/2021	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000
A	<input checked="" type="checkbox"/> Pesticide Liab. GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			PHPK2138319	05/24/2020	05/24/2021	MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 2,000,000 GENERAL AGGREGATE \$ 4,000,000 PRODUCTS - COMP/OP AGG \$ 4,000,000 Pesticide \$ 2,000,000
B	<input type="checkbox"/> AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input checked="" type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY			1020096694	05/24/2020	05/24/2021	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
D	<input type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000			86203W200ALI	06/02/2020	05/24/2021	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 1,000,000
C	<input type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y/N If yes, describe under DESCRIPTION OF OPERATIONS below		N/A	WWC3475438	05/24/2020	05/24/2021	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Pest Control

CERTIFICATE HOLDER

CANCELLATION

EVIDENC Evidence of Coverage	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE <i>Elizabeth C. Crosson</i>



Charles D. Baker, Governor
Karyn E. Polito, Lieutenant Governor
Stephanie Pollack, MassDOT Secretary & CEO

massDOT
Massachusetts Department of Transportation

DBE Certification Office | MassUCP

July 31, 2019

Ms. Linda O'Brien
Ladybug Pest Control Services, Inc.
44 Billings Road, Suite B
North Quincy, MA 02171

This letter serves as sole and exclusive proof of your firm's DBE certification

Dear Ms. O'Brien:

Congratulations! The Massachusetts Unified Certification Program (MassUCP), is pleased to notify you that we have renewed your company as a disadvantaged business enterprise (DBE). Your company continues to be assigned **NAICS Code(s) 561710** with the certified business description of **COMMERCIAL AND RESIDENTIAL EXTERMINATION OF ROACHES, MICE, RATS, FLEAS, EARWIGS AND ALL HOUSEHOLD PESTS** and will remain listed in our certified business directory.

As a DBE, you must inform MassUCP in writing of any change in circumstances affecting your ability to meet size, disadvantaged status, ownership, control requirements or any material change in the information provided in your application form. Changes in management responsibility among members of a limited liability company are covered by this requirement. You must attach supporting documentation describing in detail the nature of such changes. The notice must take the form of an affidavit sworn to by the owners of the firm before a person who is authorized by state law to administer oaths or of an un-sworn declaration executed under penalty of perjury of the laws of the United States. You must provide the written notification within 30 days of the occurrence of the change. If you fail to make timely notification of such a change, you will be deemed to have failed to cooperate under 49 CFR 26.109(c).

To renew your firm's DBE certification and if it continues to meet the applicable criteria, on or before your firm's certification anniversary date of **August 28, 2020**, and each year thereafter, please send the MassUCP the following documents:

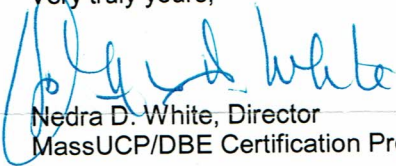
- (1) No Change Affidavit (**will be sent with reminder letter**)
- (2) A **signed** copy of your company's, and all of its affiliates', U.S. Tax Returns including all schedules and attachments for the year(s) indicated.
- (3) A **signed** copy of your personal tax returns for years(s) indicated.
- (4) If a sole proprietor, a **signed** copy of your Schedule C. for year(s) indicated.
- (5) A **statement** of the **number only** of full and part-time employees (including owner) for each year indicated.

If you have changed your company name or address, please notify Ms. Nedra D. White, in writing on the company's letterhead in order to update your state vendor file.

MassUCP reserves the right to monitor, perform random spot checks, re-evaluate the firm or revoke the firm's certification if it no longer meets the certification criteria.

During the period of your certification, if you have further questions regarding annual review, please contact Ms. Nedra D. White, Director, MassUCP at (857) 368-8659.

Very truly yours,



Nedra D. White, Director
MassUCP/DBE Certification Program

Construction Phasing Plan

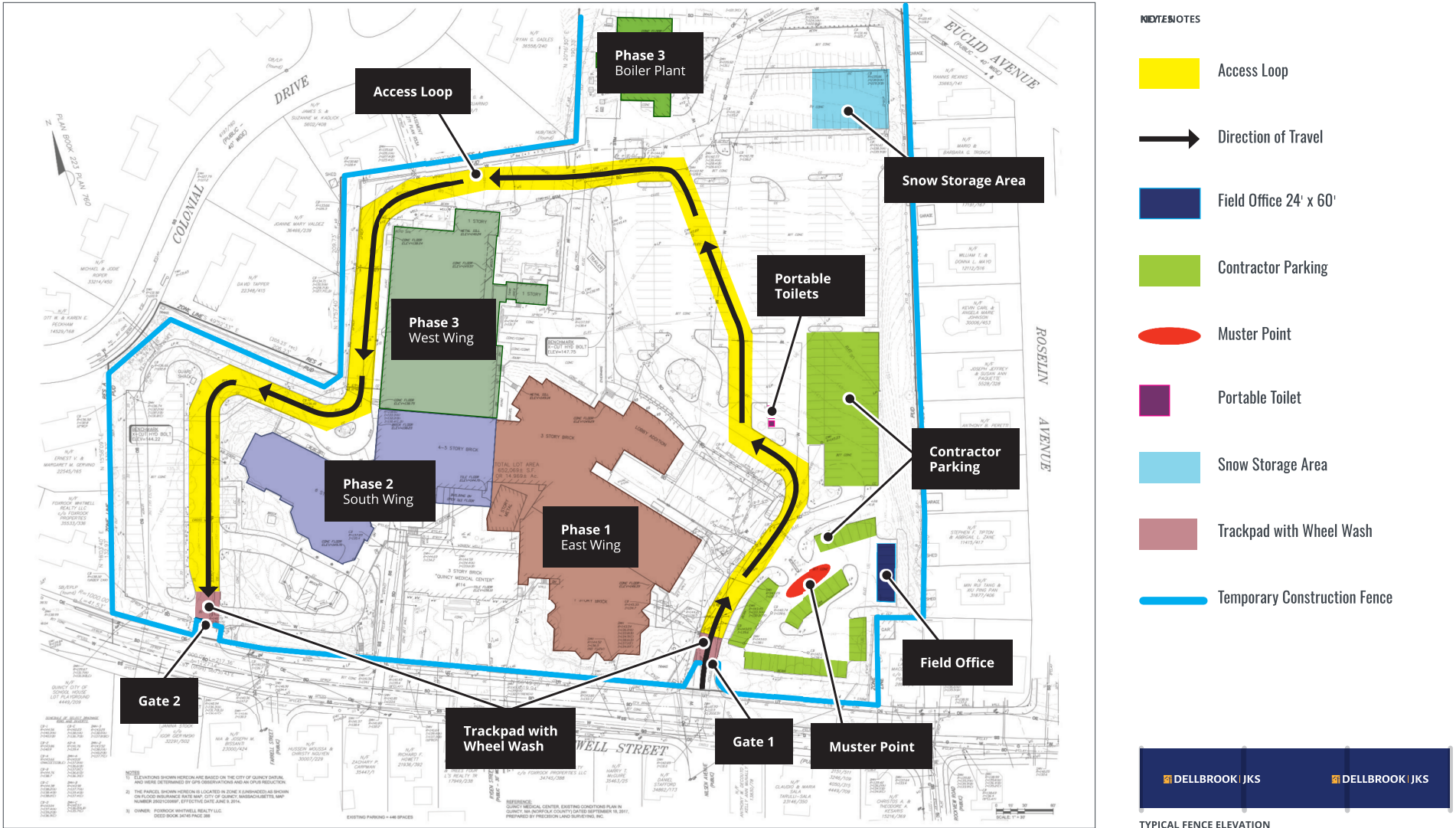
ASHLAR PARK



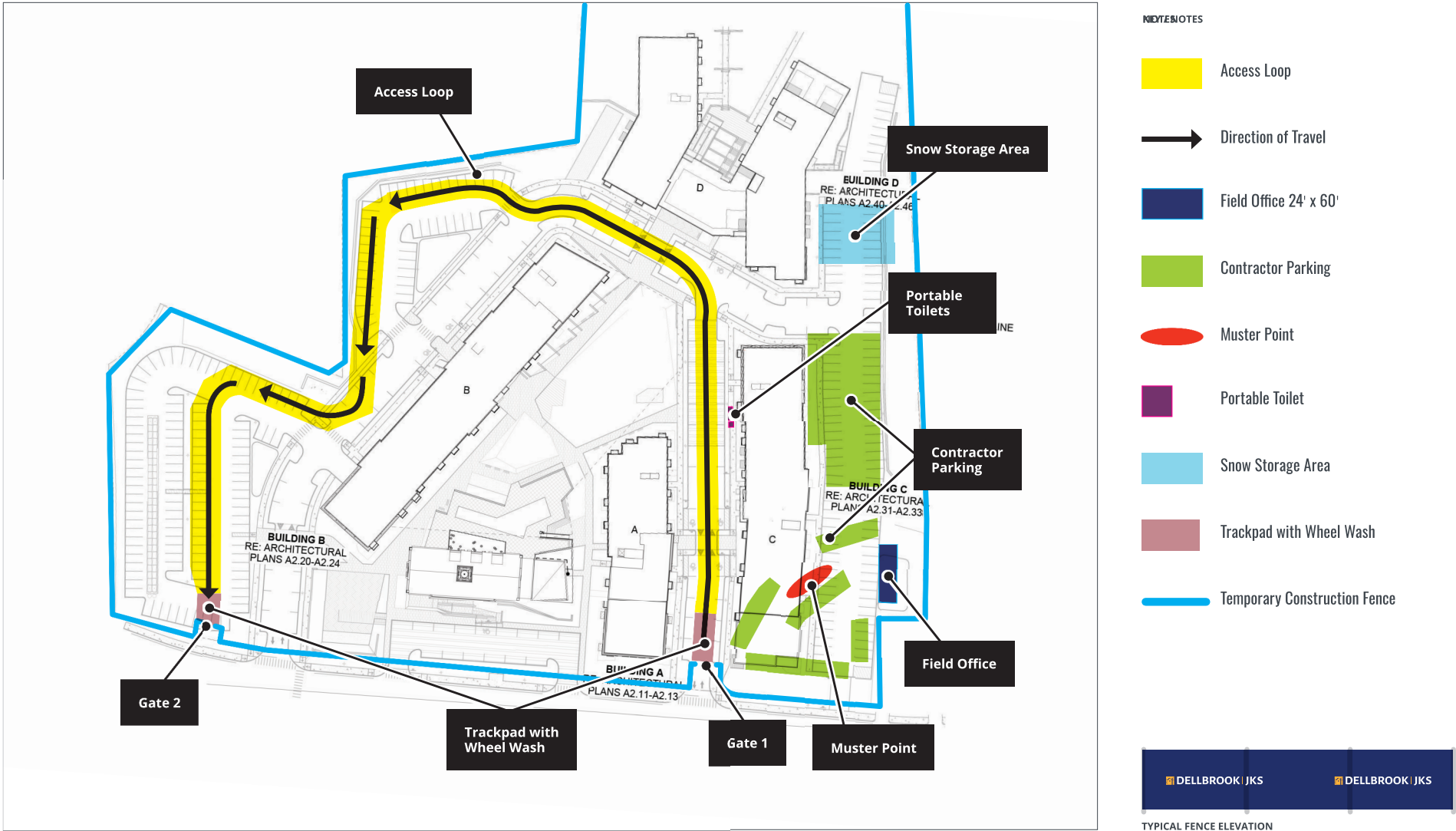
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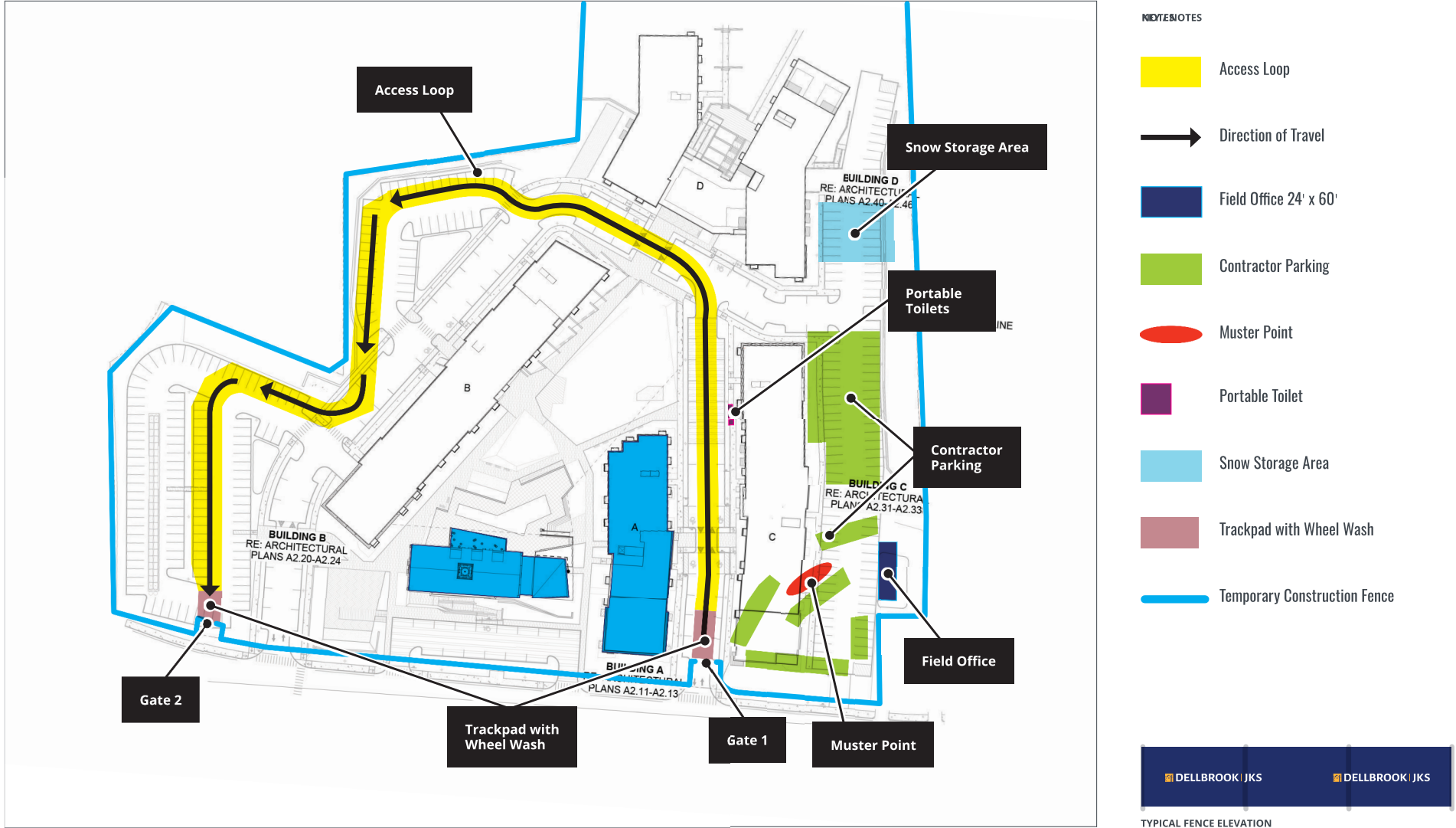
Logistics - Phase 0 Abatement & Demolition
ASHLAR PARK



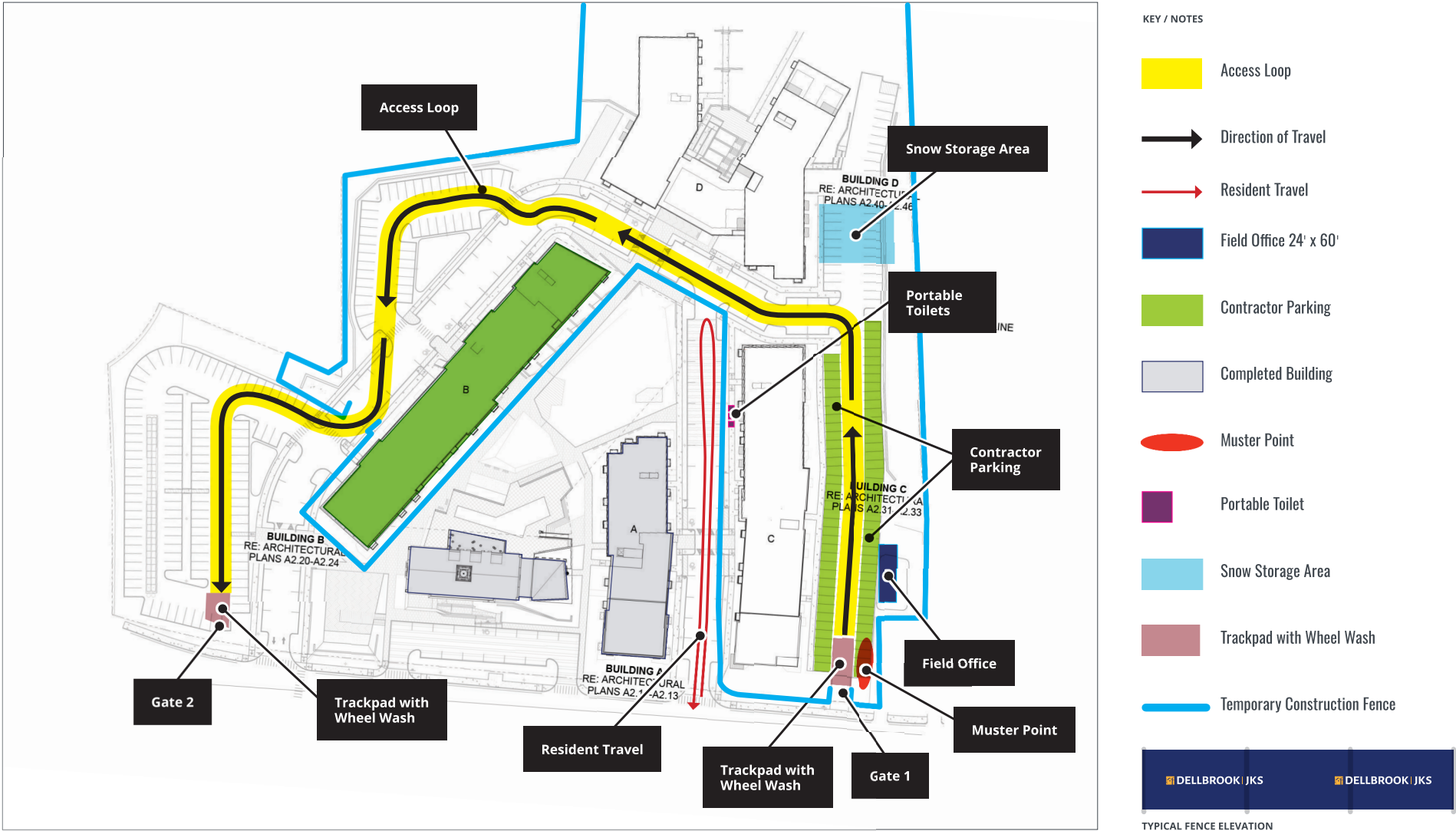
Logistics - Phase 1A Construction of Building's B & D Garage Foundations & Podium Decks
ASHLAR PARK



Logistics - Phase 1A Construction of Building A with Surface Lot & Admin/Amenity Building
ASHLAR PARK

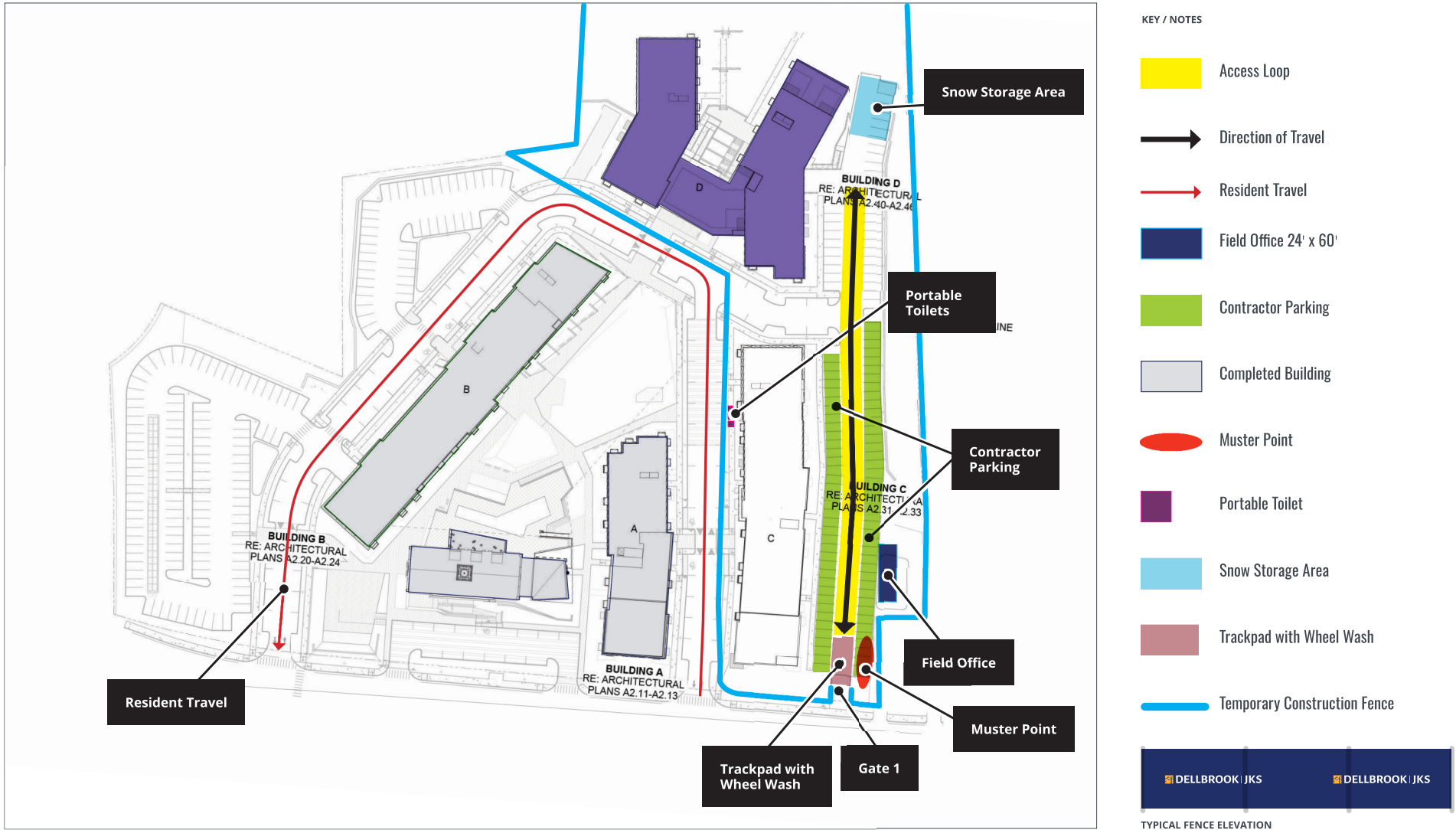


Logistics - Phase 1B Construction of Building B & Garage Finishes
ASHLAR PARK

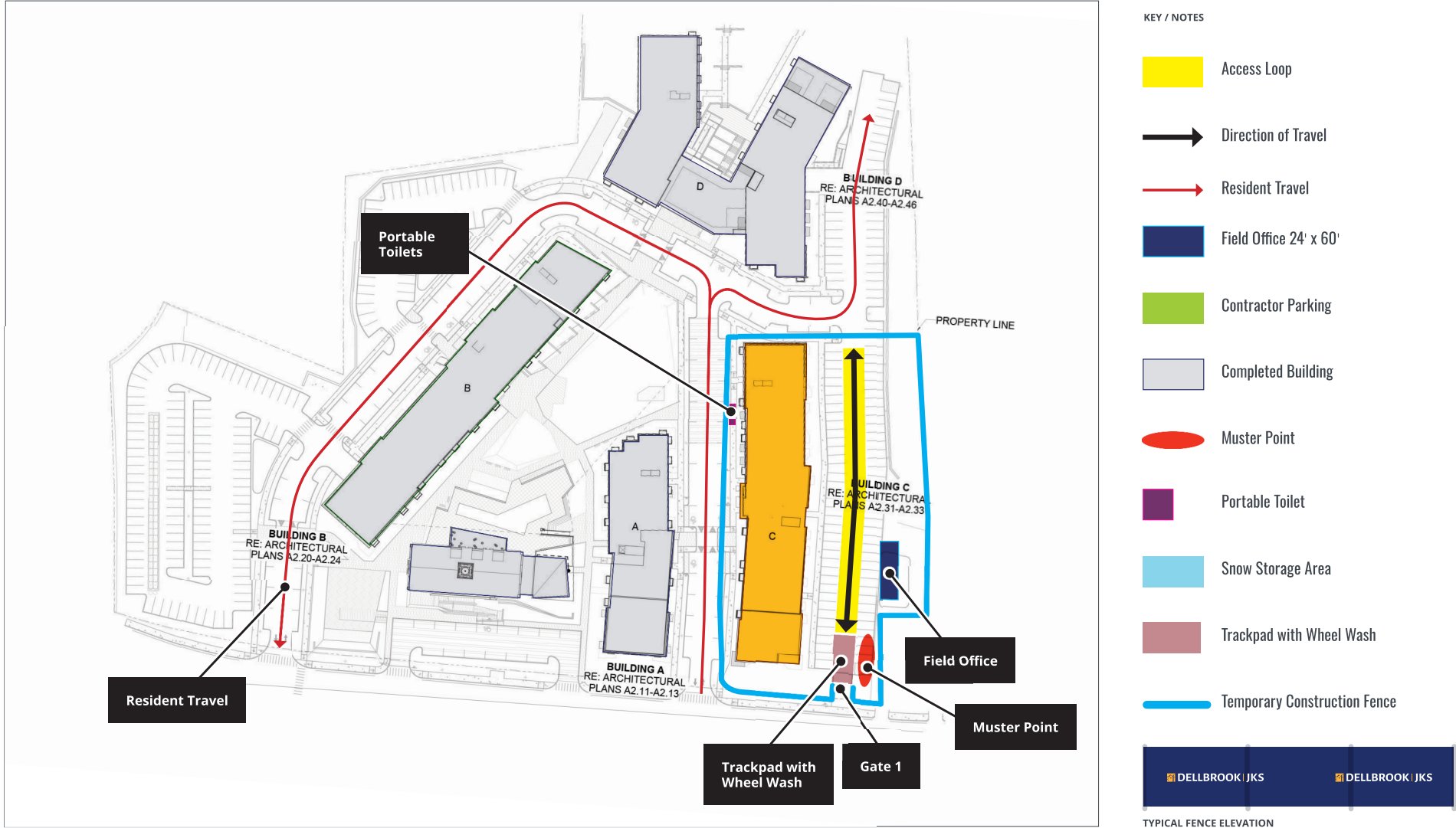


Logistics - Phase 2 Construction of Building D with Garage & Open Space Improvements

ASHLAR PARK

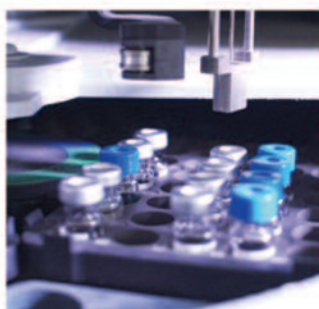


Logistics - Phase 3 Construction of Building C with Surface Lot
ASHLAR PARK





PRODUCT GUIDE



**THE WORLD
LEADER IN
RODENT
CONTROL
TECHNOLOGY®**



PROTECTA® EVO®

EXPRESS

- ▶ Weighted station with removable tray for easy cleaning
- ▶ Single locking mechanism for quick servicing
- ▶ Ramped entry keeps kids and non-target animals from reaching bait/traps
- ▶ Can hold 2 T-Rex rat traps, 2 Mini-Rex mouse traps or 4 vertical bait rods
- ▶ Dog & child tamper-resistant

PACKAGING:

Each EVO Express includes station, brick, tray, securing rods & service card. Ships in pallet quantities.

Available in black and gray



PRODUCT	CODE	DIMENSIONS (in)
Protecta Evo Express Black	EV8001	12 x 10 x 6 1/4
Protecta Evo Express Black (2/case)	EV8400	12 x 10 x 6 1/4
Protecta Evo Express Gray	EV8801	12 x 10 x 6 1/4

AMBUSH

- ▶ Single locking mechanism for quick servicing
- ▶ Removable tray for easy cleaning
- ▶ Low-profile but accommodates TRAPPER T-Rex Rat Trap
- ▶ Compatible with Sidekick Load-N-Lock system
- ▶ Dog & child tamper-resistant

PACKAGING:

6 stations per case with bait securing rods, tray and service card



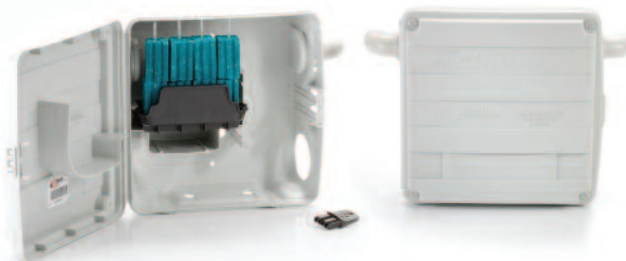
PRODUCT	CODE	DIMENSIONS (in)
Protecta Evo Ambush	EA2000	8 1/2 x 10 1/4 x 4 1/4

CIRCUIT








- ▶ Built-in disguise includes connectors to make station simulate an electrical box; great for sensitive accounts
- ▶ Can be used horizontally or vertically
- ▶ Single locking mechanism for quick servicing
- ▶ Removable tray for easy cleaning
- ▶ Dog & child tamper-resistant

PACKAGING:

6 stations per case with plastic connectors, bait securing rods (horizontal & vertical), tray and service card



PRODUCT	CODE	DIMENSIONS (in)
Protecta Evo Circuit Gray	EC8806	9 x 9 1/2 x 4

	DETEX [®] WITH LUMITRACK	CONTRAC [®]	CONTRAC [®] WITH LUMITRACK	DITRAC [®]	DITRAC [®] TRACKING POWDER	FASTRAC [®]	FINAL [®]
BAIT FORM	 Blox; Soft Bait	 Pelleted; Meal; Blox; Super-Size Blox; Soft Bait	 Blox	 Blox; Cake	 Tracking Powder	 Pelleted; Blox	 Soft Bait; Pelleted; Blox
ACTIVE INGREDIENT	None	Bromadiolone (Single-feeding anticoagulant)	Bromadiolone (Single-feeding anticoagulant)	Diphacinone (Anticoagulant)	Diphacinone (Anticoagulant)	Bromethalin (Acute)	Brodifacoum (Single-feeding anticoagulant)
CONTROLS	Monitors rodent activity	Norway & roof rats, house mice, deer mouse, cotton mouse, white footed mouse, meadow vole, & non-com- mensal rodents listed on label	Norway & roof rats, house mice, meadow vole, & non- commensal rodents listed on label	Norway & roof rats, house mice, meadow vole, & non- commensal rodents listed on label	Norway & roof rats; house mice	Norway & roof rats, house mice, meadow vole, & non- commensal rodents listed on label	Norway & roof rats, house mice, meadow vole, & non-com- mensal rodents listed on label
SITE	Indoors/ outdoors	Indoors/outdoors; Wet & dry areas (Blox)	Indoors/ outdoors	Indoors/outdoors; Wet & dry areas	Indoors/ outdoors	Indoors/ outdoors	Indoors/ outdoors
PRODUCT FEATURES	<ul style="list-style-type: none"> Lumitrack incorporated; makes feces glow under UV light Non-toxic for monitoring rodent activity 	<ul style="list-style-type: none"> Kills warfarin-resistant Norway rats Single-feed anticoagulant Proven rodent acceptance USDA approved*	<ul style="list-style-type: none"> Lumitrack incorporated; makes feces glow under UV light for identification & tracking purposes Single-feed anticoagulant 	<ul style="list-style-type: none"> Mold & moisture resistant Proven rodent acceptance Unique gnawing edges 	<ul style="list-style-type: none"> Restricted use product Carrier adheres to rodents' fur Rodents consume when grooming 	<ul style="list-style-type: none"> Knockdown power Kills rats and mice in 2 or more days after consuming a toxic dose 	<ul style="list-style-type: none"> Contains the powerful active ingredient Brodifacoum Designed to control tough to control mouse populations
USES	<ul style="list-style-type: none"> Monitoring bait Maintenance 	<ul style="list-style-type: none"> All baiting situations – wet or dry (Blox) Maintenance Clean out 	<ul style="list-style-type: none"> Monitoring Tracking Clean out Maintenance 	<ul style="list-style-type: none"> All baiting situations – wet, damp & dry (Blox & Cake) Perimeter baiting 	<ul style="list-style-type: none"> Perimeter burrow application Indoor use in secluded areas 	<ul style="list-style-type: none"> All baiting situations – wet (Blox) or dry Faster clean out than with anticoagulant baits 	<ul style="list-style-type: none"> Clean out Maintenance

CONTRAC®



THE BEST CHOICE FOR ALL-AROUND CONTROL



PRODUCT FEATURES:

- ▶ Contains the single-feed, second-generation anticoagulant, bromadiolone, for optimal control of rats, mice and non-commensal rodents
- ▶ Formulated with food-grade ingredients for outstanding rodent acceptance and control
- ▶ Effective control indoors and out; an excellent, all-purpose bait
- ▶ Available in a variety of bait forms: Blox, pellets, meal and place pacs
- ▶ Available in a 1-lb City Pack for easy transportation and inventory control



PRODUCT	CODE	CASE QTY
Contrac Blox	CB4047	4 lb. pail - 4 per case
Contrac Blox	CB4051	18 lb. pail
Contrac Blox	CB1616	1 lb. City Packs
Contrac Super Blox	CB4040	40 x 8 oz. carton
Contrac Pellets	CP4082	25 lb. pail
Contrac Pellets	CP1715	174 x 1.5 oz. carton
Contrac Pellets	CP2925	291 x 25 gm carton
Contrac Meal	CM4058	25 lb. pail
Contrac Meal	CM1715	174 x 1.5 oz. carton



THE WORLD LEADER IN RODENT CONTROL TECHNOLOGY®

Madison, Wisconsin 53704 USA | Ph: (608) 241-0202 | Fax: (608) 241-9631

www.belllabs.com

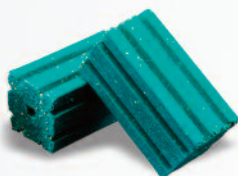
CONTRAC®

Proven Rodent Acceptance

- ▶ Contains the single-feeding anticoagulant Bromadiolone
- ▶ Formulated with an optimal blend of ingredients and low wax content for high palatability and weatherability
- ▶ Ideal choice for all-around control



PACKAGING:
4 lb. & 18 lb. plastic pails,
1 lb. pouch –
EPA REG. NO. 12455-79



PACKAGING:
40 per case –
EPA REG. NO. 12455-82



PACKAGING:
25 lb. plastic pail –
EPA REG. NO. 12455-69
174 x 1.5 oz. place pacs –
EPA REG. NO. 12455-76
291 x 25 gm. place pacs –
EPA REG. NO. 12455-86



PACKAGING:
25 lb. plastic pail –
EPA REG. NO. 12455-36
174 x 1.5 oz. place pacs –
EPA REG. NO. 12455-75



PACKAGING:
16 lb. plastic pail –
EPA REG. NO. 12455-146



BLOX®



PRODUCT
4 lb. Pail x 4/case
18 lb. Plastic Pail
1 lb. City Pack Bag

CODE
CB4047
CB4051
CB1616

1 oz. BLOX DIMENSIONS (in)
1 3/4 x 1 x 1
1 3/4 x 1 x 1
1 3/4 x 1 x 1

SUPER BLOX®



PRODUCT
40 x 8 oz. Ctn.

CODE
CB4040

8 oz. BLOX DIMENSIONS (in)
3 3/4 x 1 7/8 x 1 7/8

PELLETS



PRODUCT
25 lb. Plastic Pail
174 x 1.5 oz. Ctn.
291 x 25 gm. Ctn.

CODE
CP4082
CP1715
CP2925

PLACE PAC DIMENSIONS (in)
N/A
4 7/8 x 3 x 5/8
4 7/8 x 2 3/16 x 5/8

MEAL



PRODUCT
25 lb. Plastic Pail
174 x 1.5 oz. Ctn.

CODE
CM4058
CM1715

PLACE PAC DIMENSIONS (in)
N/A
4 7/8 x 3 x 5/8

SOFT BAIT



PRODUCT
16 lb. Plastic Pail

CODE
CS1016

SACHET DIMENSIONS (in)
2 1/2 x 1 3/8 x 1/4

CONTRAC®

WITH LUMITRACK
PATENT PENDING

Identify, Track & Eliminate Rodents

- ▶ Contains the single-feeding anticoagulant Bromadiolone
- ▶ Lumitrack makes rodent droppings illuminate under black or UV light for easy detection
- ▶ Aids in the tracking of entry points, pathways and nesting areas to improve your baiting strategy and strengthen your IPM program while controlling the rodent population in the process



PACKAGING:
4 lb. & 18 lb. plastic pails –
EPA REG. NO. 12455-133

BLOX®



PRODUCT
4 lb. Pail x 4/case
18 lb. Plastic Pail

CODE
CL4040
CL1018

1 oz. Blox DIMENSION (in)
1 3/4 x 1 x 1
1 3/4 x 1 x 1





CONTRAC[®] ALL-WEATHER BLOX

SAFETY DATA SHEET

ACCORDING TO REGULATION: OSHA
Hazard Communication Standard 29 CFR 1910.1200

DATE OF ISSUE:
January 2015

PREPARED BY:
CAR

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: CONTRAC[®] ALL-WEATHER BLOX

EPA Registration Number: 12455-79

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Anticoagulant Rodenticide - Ready to use

Uses advised against: Use only for the purpose described above

MANUFACTURER/SUPPLIER:

Bell Laboratories, Inc.

3699 Kinsman Blvd.

Madison, WI 53704, USA

Email: sds@belllabs.com

Phone: 608-241-0202

Medical or Vet Emergency: 877-854-2494 or 952-852-4636

Spill or Transportation Emergency: 800-424-9300 (CHEMTREC)

2. HAZARD IDENTIFICATION

Classification according to Regulation OSHA 1910.1200(d): Not classified

See Section 15 for information on FIFRA applicable safety, health, and environmental classifications.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	% By weight
Bromadiolone [3-[3-(4'-Bromo-[1,1'-biphenyl]-4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxy-2H-1-benzopyran-2-one]	28772-56-7	0.005%
Inert and Non-Hazardous Ingredients	Proprietary	99.995%

4. FIRST AID MEASURES

Description of first aid measures

Ingestion: Call physician or emergency number immediately. Have person sip a glass of water if able to swallow. Do not induce vomiting unless instructed by physician.

Inhalation: Not applicable.

Eye contact: Hold eye open and rinse slowly with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If irritation develops, obtain medical assistance.

Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. If irritation develops, obtain medical assistance.

Most important symptoms and effects, both acute and delayed

Ingestion of excessive quantities may cause nausea, vomiting, loss of appetite, extreme thirst, lethargy, diarrhea, bleeding.

Advice to physician: If ingested, administer Vitamin K₁ intramuscularly or orally as indicated for bishydroxycoumarin overdoses. Repeat as necessary as based upon monitoring of prothrombin times.

Advice to Veterinarian: For animals ingesting bait and/or showing poisoning signs (bleeding or elevated prothrombin times), give Vitamin K₁. If needed, check prothrombin times every 3 days until values return to normal (up to 30 days). In severe cases, blood transfusions may be needed.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media: water, foam or inert gas.

Unsuitable Extinguishing Media: None known.

Special hazards arising from the mixture: High temperature decomposition or burning in air can result in the formation of toxic gases, which may include carbon monoxide and traces of bromine and hydrogen bromide.

Advice for firefighters: Wear protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Gloves should be worn when handling the bait. Collect spillage without creating dust.

Environmental precautions: Do not allow bait to enter drains or water courses. Where there is contamination of streams, rivers or lakes contact the appropriate environment agency.

Methods and materials for containment and cleaning up

For Containment: Sweep up spilled material immediately. Place in properly labeled container for disposal or re-use.

For Cleaning Up: Wash contaminated surfaces with detergent. Dispose of all wastes in accordance with all local, regional and national regulations.

Reference to other sections: Refer to Sections 7, 8 & 13 for further details of personal precautions, personal protective equipment and disposal considerations.

7. HANDLING AND STORAGE

Precautions for safe handling: Do not handle the product near food, animal foodstuffs or drinking water. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Conditions for safe storage, including any incompatibilities: Store only in original container in a cool, dry place, inaccessible to pets and wildlife. Do not contaminate water, food or feed by storage or disposal. Keep containers closed and away from other chemicals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Established Limits

Component	OSHA	ACGIH	Other Limits
Bromadiolone	Not Established	Not Established	Not Established

Appropriate Engineering Controls: Not required

Occupational exposure limits: Not established

Personal Protective Equipment:

Respiratory protection: Not required

Eye protection: Not required

Skin protection: Shoes plus socks, and waterproof gloves.

Hygiene recommendations: Wash thoroughly with soap and water after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance/Color:	Blue wax block
Odor:	Sweet grain-like
Odor Threshold:	Not applicable, odor not associated with a hazardous material.
pH:	Not applicable, Contrac All-Weather Blox is not dispersible with water.
Melting point:	Not applicable to rodenticide bait
Boiling point:	Not applicable to rodenticide bait
Flash point:	Not applicable, Contrac All-Weather Blox does not contain components classified as flammable.
Evaporation rate:	Not applicable, Contrac All-Weather Blox is a solid.
Upper/lower flammability or explosive limits:	Not applicable, Contrac All-Weather Blox does not contain components classified as flammable or explosive.
Vapor Pressure:	Not applicable to rodenticide bait
Vapor Density:	NA: Contrac All-Weather Blox is a solid
Relative Density:	1.13 g/mL @ 20°C
Solubility (water):	Not water soluble
Solubility (solvents):	Not applicable to rodenticide bait
Partition coefficient: n-octanol/water:	Not applicable to rodenticide bait
Auto-ignition temperature:	Not applicable, Contrac All-Weather Blox does not contain components classified as flammable.
Decomposition temperature:	Not applicable to rodenticide bait
Viscosity:	Not applicable, Contrac All-Weather Blox is not a liquid.

10. STABILITY AND REACTIVITY

Reactivity: Stable when stored in original container in a cool, dry location.

Chemical stability: Stable when stored in original container in a cool, dry location.

Possibility of hazardous reactions: Refer to Hazardous decomposition products

Conditions to avoid: Avoid extreme temperatures (below 0°C or above 40°C).

Incompatible materials: Avoid strongly alkaline materials.

Hazardous decomposition products: High temperature decomposition or burning in air can result in the formation of toxic gases, which may include carbon monoxide and traces of bromine and hydrogen bromide.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity

LD50, oral (ingestion): >5000 mg/kg (rats) (Bromadiolone Rat LD50 oral: 0.70 mg/kg bw).

LD50, dermal (skin contact): > 5001 mg/kg (rats) (Bromadiolone rabbit LD50 dermal: 1.71 mg/kg bw).

LC50, inhalation: Contrac All-Weather Blox is a wax block and therefore exposure by inhalation is not relevant.

Skin corrosion/irritation: Not irritating to skin.

Serious eye damage/Irritation: Not irritating to eyes.

Respiratory or skin sensitization: Dermal sensitization: Not a Sensitizer (Guinea pig maximization test).

Germ cell mutagenicity: Contrac All-Weather Blox contains no components known to have a mutagenetic effect.

Carcinogenicity: Contrac All-Weather Blox contains no components known to have a carcinogenetic effect.

Components	NTP	IARC	OSHA
Bromadiolone	Not listed	Not listed	Not listed

Reproductive Toxicity: Contrac All-Weather Blox: No data

Aspiration Hazard: Not applicable. Contrac All-Weather Blox is a wax block.

Target Organ Effects: Reduced blood clotting ability.

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects: This product is extremely toxic to fish, birds and other wildlife. Dogs and predatory and scavenging mammals and birds might be poisoned if they feed upon animals that have eaten this bait. Do not apply this product directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff also may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash water or rinsate.

Persistence and degradability: Contrac All-Weather Blox is inherently biodegradable.

Bioaccumulative potential: Not determined for Contrac All-Weather Blox. Bromadiolone water solubility is extremely low (< 0.1mg/l).

Mobility in Soil: Not determined for Contrac All-Weather Blox. Mobility of bromadiolone in soil is considered to be limited.

Other adverse effects: None.

13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store only in original container in a cool, dry place inaccessible to children and pets. Keep containers closed and away from other chemicals.

Pesticide Disposal: Wastes resulting from the use of this product may be placed in trash or delivered to an approved waste disposal facility.

Container Handling: Non-refillable container. Do not reuse or refill this container. [Plastic:] Offer for recycling or reconditioning; or puncture and dispose of in a sanitary landfill; or by incineration. In most states, burning is not allowed. [Paper:] Dispose of empty container by placing in trash, at an approved waste disposal facility or by incineration. In most states, burning is not allowed.

14. TRANSPORT INFORMATION

UN number: Not regulated

UN proper shipping name: Not regulated

Transport hazard class(es): Not regulated

Packing group : Not regulated

Environmental Hazards

DOT Road/Rail: Not considered hazardous for transportation via road/rail.

DOT Maritime: Not considered hazardous for transportation by vessel.

DOT Air: Not considered hazardous for transportation by air.

Freight Classification: LTL Class 60

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

Special precautions for user: None

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

FIFRA: This pesticide product is regulated by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The safety, health, environmental, and hazard information required on the pesticide label is listed below and reflected throughout this SDS. The pesticide label also includes other important information, including directions for use.

Signal Word: CAUTION

Precautionary Statements: Contains the anticoagulant Bromadiolone which may cause bleeding if ingested. Harmful if swallowed or absorbed through the skin. Keep away from children, domestic animals and pets. Do not get in eyes, on skin or on clothing.

Potential Health Effects:

Eye Contact: May cause irritation

Skin Contact: Non-irritating to the skin

Ingestion: Harmful if swallowed

TSCA: All components are listed on the TSCA Inventory or are not subject to TSCA requirements

CERCLA/SARA 313: Not listed

CERCLA/SARA 302: Not listed

16. OTHER INFORMATION

For additional information, please contact the manufacturer noted in Section 1.

NFPA	Health: 1 (caution)	Flammability: 0 (will not burn)	Reactivity: 0 (stable)	Specific Hazard: None
HMIS	Health: 2 (moderate)	Flammability: 0 (minimal)	Reactivity: 0 (minimal)	Protective Equipment: B

Disclaimer: The information provided in this Safety Data Sheet has been obtained from sources believed to be reliable. Bell Laboratories, Inc. provides no warranties; either expressed or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your consideration and investigation. The user is responsible to ensure that they have all current data, including the approved product label, relevant to their particular use.

Dust Control Plan

DUST CONTROL PLAN

Ashlar Park
114 Whitwell Street
Quincy, MA 02169

Prepared By: DELLBROOK|JKS, LLC
One Adams Place
859 Willard Street
Quincy, MA 02169

Prepared For: City of Quincy

Date: December 17, 2020
Revision: 0

SECTION 1 | PROJECT SUMMARY

1.1 Project Location

Street Address: 114 Whitwell Street

Latitude/Longitude Coordinates: 42° 15' 6.65" N, 71° 0' 47.29" W

Universal Transverse Mercator Coordinates: 4679701.10 N, 333932.48 E

1.2 Project Team

Owner: FoxRock Whitwell Realty, LLC
1200 Hancock Street, Suite 301
Quincy, MA 02169

Josh Kleinman, AIA, Director of Design & Construction

Architect: Arrowstreet Inc.
10 Post Office Square, Suite 700N
Boston, MA 02169

David Bois, AIA, Principal
Jason King, AIA, Senior Associate

Civil Engineer: Tetra Tech INE – United States Infrastructure Division
20 Cabot Boulevard, Suite 305
Mansfield, MA 02048

Richard D. Alfonso, Vice President
Glenn K. Dougherty, P.E., Senior Project Manager

General Contractor: DELLBROOK | JKS, LLC
One Adams Place
859 Willard Street
Quincy, MA 02169

James Tracey, Executive Vice President
Christopher J. Modica, Senior Project Manager
Ian Briggs, Director of Field Operations
Robert Solon, Senior Project Superintendent

1.3 Project Description

The project consists of the abatement and demolition of the Quincy Medical Center to make way for four (4) residential buildings. The new residential buildings, A, B, C, and D will include 465 apartment units and total 448,292 SF. Building's A and C will each consist of a slab-on-grade with five (5) levels of residential wood framed construction. Building's B and D will each consist of a concrete podium with one (1) level of parking below and five (5) levels of residential wood framed construction above. The project also includes the adaptive re-use and addition to the historic Administration Building to

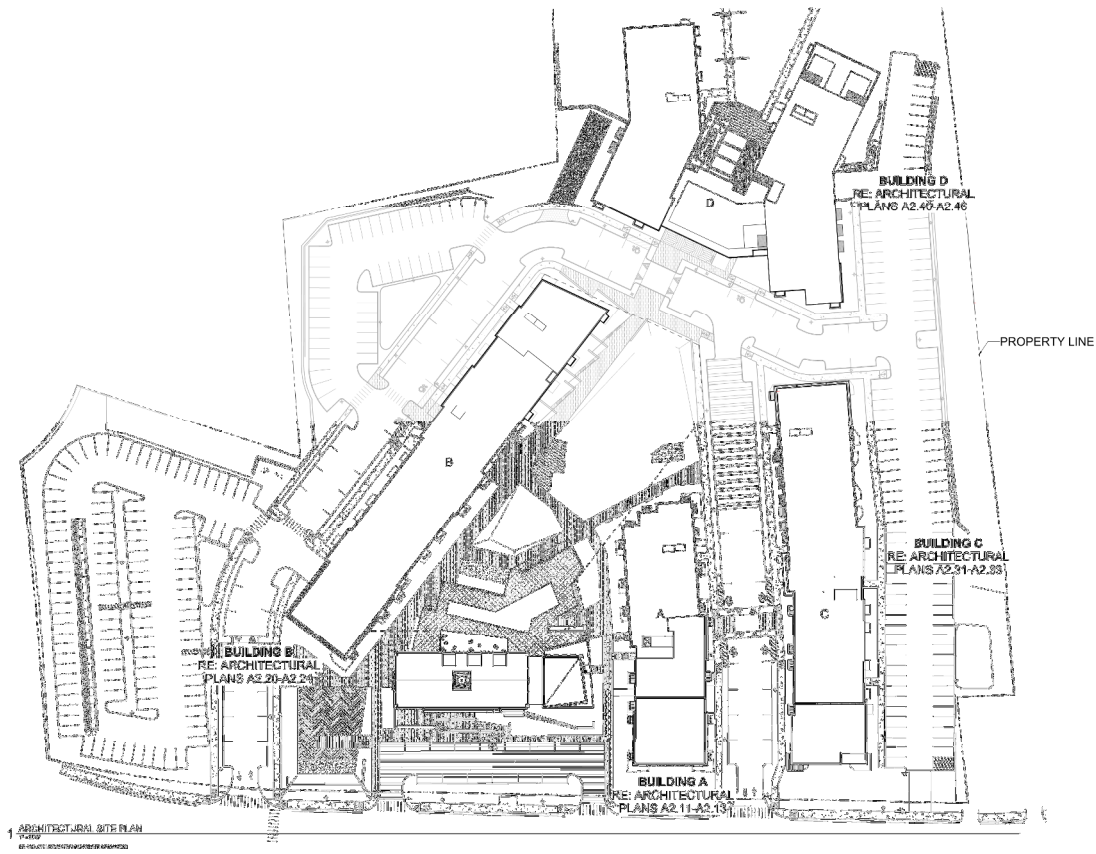
provide 19,500 SF of amenities space. The Administration Building will be connected to the Building B garage via a tunnel at basement level. Please refer to Figure 1 for building areas and unit counts.

Figure 1 | Building Areas & Unit Counts

Building	Gross Area (SF)	Unit Count
A	67,072	65
B	118,849	132
C	103,292	123
D	139,579	145
Admin	19,500	-
	448,292	465

There will be four (4) surface parking lots to accommodate 277 vehicles plus two (2) additional parking spaces in front of each building for handicap use. There will be a main courtyard above the Building B garage with a pool, landscaped areas, fire pits, grilles, and gathering areas. A secondary courtyard will be located behind Building D with access to the Glendale wooded area. A road will encircle the site providing access from Whitwell Street to the residential buildings, main courtyard, and surface parking lots. Please refer to Figure 2 for the layout of the site and buildings.

Figure 2 | Architectural Site Plan



SECTION 2 | PROJECT SCHEDULE

2.1 Construction Schedule

The project duration is expected to be thirty-six (36) months. There will be six (6) months of enabling work followed by thirty (30) months of construction. The enabling phase is expected to start in January 2021 with completion expected in July 2021. The construction phase is expected to begin in July 2021 with final completion expected in February 2024. Please refer to Figure 3 for milestone dates for enabling, construction, and building turn-over.

Figure 3 | Milestone Dates

TASK NAME	START DATE	FINISH DATE
Enabling		
Abatement	01/04/21	04/02/21
Demolition	03/08/21	07/02/21
Construction	05/17/21	02/02/24
Closeout	01/01/24	03/01/24
Building Turn-Over		
Admin/Amenity Building, Building A, & Surface Parking Lot A		02/10/23
Building B, Garage, & Surface Parking Lot B		05/12/23
Building D, Garage, Surface Parking Lot D, & Open Space Improvements		08/11/23
Building C & Surface Parking Lot C		02/02/24
Final Completion		02/02/24

SECTION 3 | DUST CONTROL PLAN

3.1 Dust Control & Air Quality

DELLBROOK | JKS will submit a Dust Control Plan (DCP) to the Quincy Health Department for review and approval prior to any site activity. The DCP will include best practices and mitigation measures available to DELLBROOK | JKS to help reduce dust and other construction-related airborne material impacts including the following:

- Alternate methods of construction
- Wetting exposed earth areas
- Covering dust producing materials
- Limiting construction activities during sustained high wind conditions
- Seeding, covering, wetting, and/or otherwise treating disturbed soil areas
- Minimizing storage and relocation of spoils and debris on-site
- Installing wind screen on temporary construction fencing
- Covering all trucks transporting dust-producing materials and debris
- Removing loose and unsecured materials and debris from empty trucks prior to leaving the site
- Reducing truck speeds on unpaved surfaces
- Installing and maintaining tracking pads and wheel wash stations at access/egress gates
- Cleaning/sweeping Whitwell Street at the access/egress gate locations when soil material and debris are present as a result of the work
- Modifying the construction schedule when weather conditions can lead to dust impacts

Phase 1 Close Out Report

October 5, 2018

Mr. Josh Kleinman
FoxRock Properties
1495 Hancock Street, Ste. 400
Quincy, MA 02169

RE: **Asbestos Abatement Close-out Report**
Quincy Medical Center – Phase 1
114 Whitwell Street
Quincy, Massachusetts
EFI Project No.: 020.00026

Dear Mr. Kleinman:

EFI Global, Inc. (EFI) has completed air monitoring and observations of abatement work practices associated with the removal of asbestos-containing materials (ACM) from Quincy Medical Center located at 114 Whitwell Street in Quincy, Massachusetts (Site).

SUMMARY OF ABATEMENT ACTIVITIES

Abatement activities were conducted from May 7, 2018 through September 11, 2018 by Omni Environmental, a Massachusetts licensed asbestos abatement contractor. Asbestos abatement work included work area preparation, removal, and disposal of the following (quantities are approximates):

Administration Building

- 19,000 square feet (SF) of floor tile/mastic throughout the 1st, 2nd and 3rd Floors
- 1,000 linear feet (LF) of pipe insulation throughout the 1st, 2nd and 3rd Floors

East Wing/Rice Building

- 5,100 SF floor tile/ mastic from throughout the 3rd Floor
- 500 LF of pipe insulation and stick pin adhesive from throughout the 3rd Floor
- 4,000 SF of window caulk-contaminated windows from throughout the 3rd Floor
- 8,500 SF floor tile/mastic from throughout the 2nd Floor
- 500 LF of pipe insulation and stick pin adhesive from throughout the 2nd Floor
- 175 SF of black dampproofing from 2nd floor connector building
- 4,000 SF of window caulk-contaminated windows from throughout the 2nd Floor
- 12,320 SF floor tile/mastic from throughout the 1st Floor
- 500 LF of pipe insulation from throughout the 1st Floor
- 4,000 SF of window caulk from throughout the 1st Floor

C Building

- 2,000 SF black mastic associated with 12"x12" pink mottled inlay tile

Boiler House

- 2,500 LF pipe insulation throughout the 1st floor, basement storage area
- 700 SF boiler insulation and interior boiler components – complete boiler demolition from the 1st floor
- 1,500 SF boiler breeching insulation from the 1st floor main area
- 110 exterior windows – window glazing


SUMMARY OF MONITORING ACTIVITIES

EFI Massachusetts licensed asbestos project monitors Ms. Kayla Carnes (License No.: AM900545), Mr. Christopher Eustis (License No.: AM900502), Mr. Richard Murphy (License No.: AM000111), Mr. David Johnson (License No.: AM001988), Mr. Nicholas McCarthy (License No.: AM900678), Mr. Nikalas McClure (License No.: AM900666), and Mr. Derrick Calvario (License No.: AM900594) performed work observations and air monitoring, and EFI's project manager provided general consulting services during the abatement project. EFI was responsible for reporting observations and monitoring contractor compliance with applicable federal and state asbestos regulations.

Asbestos air sampling was performed during (in-process) and at the completion (clearance) of asbestos abatement activities in accordance with Massachusetts Division of Labor Standards (DLS) asbestos regulations. Background and clearance air samples collected and analyzed by EFI's monitor at the Site contained fiber concentrations of less than 0.010 fibers per cubic centimeter (f/cc), the Massachusetts non-occupational asbestos indoor air quality standard. EFI's visual clearance sheets and air monitoring documentation are attached to this correspondence.

EFI appreciates this opportunity to provide environmental services to FoxRock Properties and look forward to working with you in the future. If you require any additional information or have questions regarding the attached results, please contact John Vaz at (339) 227-5424.

Sincerely,
EFI Global, Inc.



Jessica Rauseo
Project Administrator



John Vaz
Project Manager

Attachments: EFI Monitoring Documentation

PROJECT NUMBER: 98350-06932

CLIENT: FOX ROCK

PROJECT NAME: QMC - 114 Whitwell St.

DATE COLLECTED: 5-9-70

DATE ANALYZED: 5-4-18

cy, MA - Admin bldg

PROJECT MANAGER:

PROJECT MONITOR:

CONTRACTOR: Omni environments

John Var

16/04/19

ii environment

Sample ID	Sample Location	*Sample Type	Time			Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.						
01	Blank	-	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
02	Blank	-	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
03	Admin 1st Fl Corridor	BG	648	945	9.7	9.7	9.7	177	1,716.9	16/100	0.004		KC
04	Admin 1st Fl Corridor	BG	950	115	15.6	15.2	15.4	205	3,157	15.5/100	0.002		KC
03	Duplicate Analysis	BG	-	-	-	-	-	-	-	1716.9	12/100	0.003	KC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance Analytical Method; NIOSH 7400, Limit of Detection Is 7 fibers/mm²

Analyst Signature

Approved By _____

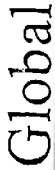
Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

Relinquished by (Lab Use Only):

Date:

Received by (Lab Use Only):

Date:



PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

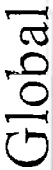
CONTRACTOR: Omni Electric

CONTRACTOR: Omni Electric

Sample Type;	BG=Background, P=Pre-abatement, D=During, F = Final Clearance	Analytical Method: NIOSH 7400	Limit of Detection: 7.5 µg/m³
1/15/1	2:3/08	66.00/1	KC

Date:

Time:



CONTRACTOR: Omni Environmental

Kayla Carnei

CONTRACTOR: Omni Environmental

Duplicate Analysis

Analyst Signature: _____

Approved By _____

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☐ Phase Rings Centered? ☒

Relinquished by (Lab Use Only):

Received by (Lab Use Only):

Date:

Date:



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 5-14-18 PROJECT MANAGER: John Vaz
CLIENT: Fox POC DATE ANALYZED: 5-14-18 PROJECT MONITOR: Kyla Curves
PROJECT NAME: QMC-Admin bldg - Quincy, MA CONTRACTOR: Omni Environmental

Sample ID	Sample Location	Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
03	Admin bldg 1st Fl Corridor	BG	643 PM	9:28 AM	9.7	9.7	9.7	165	1,600.5	185/100	0.005	KE
04	Admin bldg 1st Fl Corridor	BG	9:38 AM	11:30 AM	9.7	9.7	9.7	112	1,086.4	11/100	0.005	KE
04	Duplicate Analysis	BG	-	-	-	-	-	-	1,086.4	12/100	0.005	KE

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By -

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

Relinquished by (Lab Use Only):
Received by (Lab Use Only):

Date: Date:
Time: Time:



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98370-06932 DATE COLLECTED: 5-15-18 PROJECT MANAGER: John Vaz
CLIENT: FOX ROCK DATE ANALYZED: 5-15-18 PROJECT MONITOR: Kayla Garner
PROJECT NAME: QMC- Admin bldg - Quincy, MA CONTRACTOR: Omni Environmental

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	400	Not Applicable	KE
02	Blank	-	-	-	-	-	-	-	-	000	Not Applicable	KE
03	Admin bldg 1st fl corridor	BG	7:20 PM	11:00 PM	9.1	9.1	9.1	220	2,002	14.5/100	0.003	KE
04	Admin bldg 1st fl corridor	BG	11:01 AM	1:36 PM	9.1	9.1	9.1	155	1,410.5	13.5/100	0.004	KE
05	Duplicate Analysis	BG	-	-	-	-	-	-	1,410.5	14.5/100	0.005	KE

*Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature: [Signature] Approved By: [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered?

Relinquished by (Lab Use Only):

Received by (Lab Use Only):

Date:

Date:

Time:

Time:



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98356-06932 DATE COLLECTED: 5-16-18 PROJECT MANAGER: John Vaz
CLIENT: For Rock DATE ANALYZED: 5-16-18 PROJECT MONITOR: Kyle's Carney
PROJECT NAME: QMC - Admin bldg - Quincy, MA CONTRACTOR: Omni Environmental

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	900	Not Applicable	ke
02	Blank	-	-	-	-	-	-	-	-	0700	Not Applicable	ke
03	Admin bldg 1st fl corridor	BG	7:04 am	11:33 am	8:1	8:1	8:1	269	2178.9	10/100	0-003	ke
04	Admin bldg 1st fl corridor	BG	11:36 am	1:46 pm	9:7	9:7	9:7	130	1,261	8/100	0-003	ke
63	Duplicate Analysis	BG	-	-	-	-	-	-	2178.9	9/100	0-003	ke

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By _____

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☐

Relinquished by (Lab Use Only): _____ Date: _____

Received by (Lab Use Only): _____ Date: _____

Time: _____

Time: _____

PROJECT NUMBER: 98350-06932

CLIENT: Fox Rock

PROJECT NAME: QMC

PROJECT NUMBER: 98350-06932

DATE ANALYZED:

PROJECT NAME: QMC - Admin bldg - Quincy, MA

DATE COLLECTED: 5-17-1983

DATE ANALYZED: 5-17-198

PROJECT MANAGER:

PROJECT MONITOR:

CONTRACTOR: Omni Environment

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
03	Admin bldg 1st floor corridor	BG	6:45 AM	10:02 AM	9.1	9.1	9.1	197	1.792.7	12/100	0.003	KC
04	1st fl - Hallway connector at side door	BG	10:03 AM	1:35 PM	9.7	9.1	9.4	212	1.992.8	14/100	0.003	KC
04	Duplicate Analysis	BG	-	-	-	-	-	-	1.992.8	13/100	0.003	KC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm²

Analyst Signature

Approved By

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

Slide

Relinquished by (Lab Use Only):

Date:

Received by (Lab Use Only):

Date:



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 5-16-18 PROJECT MANAGER: John Valz
CLIENT: Fox Rock DATE ANALYZED: 5-18-18 PROJECT MONITOR: Kathy Carney
PROJECT NAME: Que - Admin bldg - Quincy, MA CONTRACTOR: Omni Environmental

Sample ID	Sample Location	Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	-	Not Applicable	CC
02	Blank	-	-	-	-	-	-	-	-	-	Not Applicable	CC
03	Hallway Connector 1st floor outside decon	BG	7:40	10:30 AM	9.1	9.1	9.1	170	1,547.0	11/100	0.003	CC
04	Hallway Connector outside decon	BG	10:32 AM	1:30 PM	9.1	9.1	9.1	186	1,692.6	13/100	0.003	CC
63	Duplicate Analysis	BG	-	-	-	-	-	-	1,547	9.8/100	0.003	CC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature

Approved By

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

Relinquished by (Lab Use Only):

Received by (Lab Use Only):

Date:

Date:

Time:

Time:



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 5-21-18 PROJECT MANAGER: John Vaz
CLIENT: Fox Rock DATE ANALYZED: 5-21-18 PROJECT MONITOR: Kyle G. Grier
PROJECT NAME: QMC - Admin bldg - Qubit Cg, Inc CONTRACTOR: QMC - Environ menta l

Sample ID	Sample Location	Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
03	Hallway Connector outside deck	BG	45 6:20 AM	100 7:00 AM	9.1	9.1	9.1	195	1.774.5	13/100	0.003	14
04	Hallway Connector outside deck	BG	58 10:00 AM	155pm	9.1	9.1	9.1	177	1.610.7	15/100	0.004	KC
05												
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*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring Centered? ☒

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 5-22-78 PROJECT MANAGER: John Vaz
CLIENT: Fox Rock DATE ANALYZED: 5-22-78 PROJECT MONITOR: Kayla Carney
PROJECT NAME: Quincy Admin Bldg - Quincy, MA CONTRACTOR: Omni Environmental

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)		Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off					
01	Blank	-	-	-	-	-	-	-	0/100	Not Applicable	KE
02	Blank	-	-	-	-	-	-	-	0/100	Not Applicable	KE
03	Hallway Connector at decon	BG	6:25A	10:02A	9.7	9.7	217	2104.9	13.5/100	0.003	KE
04	Basement South stairwell	D	8:33A	11:15A	9.7	9.7	162	1571.4	2/100	20.001	KE
05	Basement - North stairwell	D	8:35A	11:16A	11.1	11.1	161	1707.1	6/100	0.001	KE
06	Hallway Connector	D/BG	10:04A	12:58A	9.1	9.1	174	1583.4	9.5/100	0.003	KE
07	Hallway Connector at decon	D	8:42A	10:25A	11.9	11.9	103	1225.7	6/100	0.002	KE
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*Sample Type: BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature: [Signature] Approved By:

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 5-23-18 PROJECT MANAGER: John Vaz
CLIENT: Fox Rock DATE ANALYZED: 5-23-18 PROJECT MONITOR: Kyle Carney
PROJECT NAME: GLC- Admin Bldg CONTRACTOR: Omni Environmental

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
03	Hallway Connector at decon	D	6 ¹⁶ Am	11 ⁰⁵ Am	8.1	8.1	8.1	291	2,357.1	15/100	0.003	KC
04	Stairwell South Basement	D	6 ³⁰ Am	11 ³⁶ Am	7.2	7.2	7.2	316	2,275.2	9/100	0.002	KC
05	Stairwell North Basement	D	6 ²³ Am	11 ³⁹ Am	7.2	7.2	7.2	316	2,275.2	7/100	0.001	KC
06	Hallway Connector at decon	D	8 ²¹ Am	11 ⁰⁵ Am	13.2	13.2	13.2	164	2,164.8	11/100	0.002	KC
07	Hallway Connector at decon	D	11 ⁰⁶ Am	13 ²⁰ Am	9.7	9.7	9.7	146	1,416.2	6/100	0.002	KC
08	Hallway Connector at decon	D	11 ⁰⁷ Am	13 ³⁰ Am	13.2	13.2	13.2	146	1,927.2	5/100	0.001	KC
09	Basement Stairwell South	D	12 ³⁷ Am	13 ³⁸ Am	9.2	9.2	9.2	59	542.8	3/100	0.002	KC
10	Basement Stairwell North	D	12 ⁴⁰ Am	14 ⁰⁰ Am	9.2	9.2	9.2	60	552.0	3/100	0.002	KC
10	Duplicate Analysis	D	-	-	-	-	-	-	552.0	2/100	0.001	KC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring's Centered? ☒

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 5/24/18 PROJECT MANAGER: Sean Cassidy
CLIENT: For Rock DATE ANALYZED: 5/23/18 PROJECT MONITOR: Charles Fish
PROJECT NAME: 119 inch road St. Quentin, St. Admin Bldg. CONTRACTOR: Ona

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)		Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off					
01	Blank	-	-	-	-	-	-	-	0/100	Not Applicable	CE
02	Blank	-	-	-	-	-	-	-	0/100	Not Applicable	CE
03	hallway connector down	D	0706	0803	9.8	9.8	187	1.865	4/100	<1003	CE
04	basement stairs north	D	0708	1015	9.8	9.8	187	1.865	3/100	<1003	CE
05	basement stairs north	D	0709	1017	9.8	9.8	188	1.882	5/100	<1003	CE
06	hallway connector down	D	1017	1417	9.8	9.8	239	2.386	4.5/100	<1003	CE
07	basement stairs north	D	1015	1415	9.8	9.8	240	2.395	6/100	<1003	CE
08	basement stairs north	D	1012	1418	9.8	9.8	441	2.440	5/100	<1003	CE
08	Duplicate Analysis								6/100	<1003	CE

*Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By _____

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring Centered? ☒

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PROJECT NUMBER: 98350-06937 DATE COLLECTED: 5/25/18 PROJECT MANAGER: John Varz
CLIENT: FOX BACK DATE ANALYZED: 5/25/18 PROJECT MONITOR: Cheryl E. Smith
PROJECT NAME: 114 unit wall at Quincy, MA Admin Contractor

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (floc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	-	Not Applicable	CE
02	Blank	-	-	-	-	-	-	-	-	-	Not Applicable	NE
03	hallway, clean, north	D	0703	0706	9.8	9.8	9.8	123	1,210	51,100	4,003	CE
04	basement stairwell, north	D	0707	0710	9.8	9.8	9.8	123	1,730	31,100	4,003	CE
05	basement stairwell, south	D	0709	0712	9.8	9.8	9.8	123	1,230	45,100	4,003	CE
06	hallway, clean, north	D	0706	1134	9.8	9.8	9.8	150	1,490	71,100	4,003	CE
07	basement stairwell, north	D	0710	1139	9.8	9.8	9.8	149	1,480	61,100	4,003	CE
08	basement stairwell, south	D	0712	1145	9.8	9.8	9.8	153	1,520	45,100	4,003	CE
09	Duplicate Analysis									45,100	4,003	CE

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm²

Analyst Signature [Signature] Approved By _____

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 5-29-18 PROJECT MANAGER: John Va2
CLIENT: FOX ROCK DATE ANALYZED: 5-29-18 PROJECT MONITOR: Kayla Ames
PROJECT NAME: QMC - Admin bldg CONTRACTOR: Omni

Sample ID	Sample Location	*Sample Type	Time		Flow rate Liters/min.			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
03	Hallway Connector at decm	D	731A	1048	8.1	8.1	8.1	197	1,595.7	12/100	0.003	KC
04	Stair well South Basement	D	734	1053	9.1	9.1	9.1	199	1,810.9	10/100	0.002	KC
05	Stair well North Basement	D	737	1055	8.1	8.1	8.1	198	1,603.8	11/100	0.003	KC
06	Hallway Connector at decm	D	745A	1050	9.1	8.9	8.9	193	1,717.7	13.5/100	0.003	KC
07	Hallway Connector at decm	D	48	135	8.1	8.1	8.1	167	1,352.7	8/100	0.003	KC
08	Stair well South Basement	D	1053	136	9.1	9.1	9.1	165	1,561.5	9.5/100	0.003	KC
09	Stair well North Basement	D	1055	140	8.1	8.1	8.1	165	1,336.5	8.5/100	0.003	KC
10	Hallway Connector at decm	D	1058	145	8.2	8.7	8.7	167	1,452.9	9/100	0.003	KC
08	Duplicate Analysis	D	-	-	-	-	-	-	1,561.5	1/100	0.003	KC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm²

Analyst Signature [Signature] Approved By [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring Centered? ☒

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 5-30-18 PROJECT MANAGER: John Varz
CLIENT: Cox Rock DATE ANALYZED: 5-30-18 PROJECT MONITOR: Kyle Amos
PROJECT NAME: QMC - Admin bldg CONTRACTOR: Omni

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	kc
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	kc
03	Hallway connector at decon	D	6:22 PM	9:40 PM	8.5	8.5	8.5	198	1,683.0	8/100	0.002	kc
04	Hallway connector at decon	D	6:23 PM	9:41 PM	11.1	11.1	11.1	198	2,147.8	12/100	0.002	kc
05	Stair well south Basement	D	6:27 PM	9:45 PM	9.1	9.1	9.1	198	1,801.8	10/100	0.002	kc
06	Stair well north Basement	D	6:28 PM	9:48 PM	9.1	9.1	9.1	200	1,820.0	1.5/100	0.002	kc
07	Hallway connector at decon	D	9:40 PM	12:48 PM	8.5	8.5	8.5	188	1,598	6/100	0.001	kc
08	Hallway connector at decon	D	9:41 PM	12:49 PM	11.1	11.1	11.1	188	2,086.8	9/100	0.002	kc
09	Stair well south Basement	D	9:45 PM	12:53 PM	9.1	9.1	9.1	188	1,710.8	10/100	0.002	kc
10	Stair well north Basement	D	9:48 PM	12:56 PM	9.1	9.1	9.1	187	1,701.7	7.5/100	0.002	kc
07	Duplicate Analysis	D	-	-	-	-	-	-	1,598	8/100	0.002	kc

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06952 DATE COLLECTED: 5-31-16 PROJECT MANAGER: John Valz
CLIENT: Gen Rep DATE ANALYZED: 5-31-16 PROJECT MONITOR: Kayla Carter
PROJECT NAME: QVC - Admin Bldg CONTRACTOR: Omni

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	K
03	Hallway Connector at decon	D	730 ^{pm}	10 ⁴⁸	8.5	8.5	8.5	198	1,683.0	10/100	<0.003	KC
04	Hallway Connector at decon	D	735 ^{pm}	10 ⁴⁹	11.1	11.1	11.1	198	2,197.8	15/100	0.003	KC
05	Stairwell South Basement	D	735 ^{pm}	10 ⁵³	9.1	9.1	9.1	197	1,792.7	12/100	0.003	KC
06	Stairwell North Basement	D	738 ^{pm}	10 ⁵⁵	9.1	9.1	9.1	197	1,792.7	12.5/100	0.003	KC
07	Hallway Connector at decon	D	48 ^{pm}	10 ³⁸	8.5	8.5	8.5	170	1,445	9.5/100	0.003	KC
08	Hallway Connector at decon	D	49 ^{pm}	10 ³⁹	11.1	11.1	11.1	176	1,887	8/100	0.002	KC
09	Stairwell South Basement	D	53 ^{pm}	14 ^{pm}	9.1	9.1	9.1	171	1,556.1	7.5/100	<0.003	KC
10	Stairwell North Basement	D	10 ⁵⁵	14 ^{pm}	9.1	9.1	9.1	171	1,556.1	9.5/100	<0.003	K
05	Duplicate Analysis	D	-	-	-	-	-	-	-	12/100	0.003	KC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm

Analyst Signature [Signature] Approved By [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring Centered? ☒

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 6-1-18 PROJECT MANAGER: John Var
CLIENT: FOX ROCK DATE ANALYZED: 6-1-18 PROJECT MONITOR: Kayla Carols
PROJECT NAME: Qare - Admin bldg + c bldg CONTRACTOR: Omni

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
03	Hallway Connector at decan	D	7:48 pm	9:58 pm	8.5	8.5	8.5	122	1,037	7/100	0.003	KC
04	Hallway Connector at decan	D	7:49 pm	9:58 pm	11.1	11.1	11.1	122	1,354.2	85/100	0.003	KC
05	Stairwell South Basement	D	7:55 pm	9:58 pm	9.1	9.1	9.1	122	1,110.2	7/100	0.003	KC
06	Stairwell North Basement	D	7:58 pm	10:11 pm	9.1	9.1	9.1	123	1,119.3	55/100	0.002	KC
07	Hallway Connector at decan	D	9:20 pm	11:22 pm	8.5	8.5	8.5	202	1,717.0	11.5/100	0.003	KC
08	Hallway Connector at decan	D	9:51 pm	11:22 pm	11.1	11.1	11.1	201	2,231.1	13/100	0.002	KC
09	Stairwell South Basement	D	9:56 pm	11:18 pm	9.1	9.1	9.1	200	1,820.0	10/100	0.002	KC
10	Stairwell North Basement	D	10:01 pm	12:22 pm	9.1	9.1	9.1	201	1,829.1	10.5/100	0.002	KC
01	Duplicate Analysis	D	-	-	-	-	-	-	1,717.0	10/100	0.002	KC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By -

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring Centered? ☒

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 6-4-18 PROJECT MANAGER: John Vaz
CLIENT: fox rock DATE ANALYZED: 6-4-18 PROJECT MONITOR: Kayla Carter
PROJECT NAME: QMC - Admin bldg + c bldg CONTRACTOR: onni

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	01/00	Not Applicable	KC
02	Blank	-	-	-	-	-	-	-	-	01/00	Not Applicable	KC
03	Hallway connector at decon	D	658 ^{pm}	1010 ^{pm}	8.5	8.5	8.5	192	1.632	11/100	0.003	KC
04	Hallway connector at decon	D	659 ^{pm}	1011 ^{pm}	11.1	11.1	11.1	192	2.131.2	13.5/100	0.003	KC
05	Stairwell South Basement	D	707 ^{pm}	1015 ^{pm}	9.1	9.1	9.1	188	1710.8	12/100	0.003	KC
06	Stairwell North Basement	D	709 ^{pm}	1017 ^{pm}	9.1	9.1	9.1	188	1710.8	12/100	0.003	KC
07	Hallway connector at decon	D	1010 ^{pm}	118 ^{pm}	8.5	8.5	8.5	188	1.598.0	9/100	0.002	KC
08	Hallway connector at decon	D	1011 ^{pm}	118 ^{pm}	11.1	11.1	11.1	187	2.075.7	12/100	0.002	KC
09	Stairwell South Basement	D	1015 ^{pm}	124 ^{pm}	9.1	9.1	9.1	189	1.719.9	15/100	0.004	KC
10	Stairwell North Basement	D	1017 ^{pm}	127 ^{pm}	9.1	9.1	9.1	190	1.729.0	9.5/100	0.002	KC
10	Duplicate Analysis	D	-	-	-	-	-	-	1.729.0	10/100	0.002	KC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring is Centered? ☒

Relinquished by (Lab Use Only):
Received by (Lab Use Only):

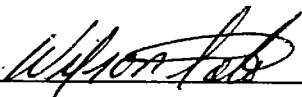
Date: _____ Time: _____
Date: _____ Time: _____

Certificate of Completion

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St, Quincy, MA
Containment: C building
EFI Project No.: 98350-06932


Contractor's Certification of Project Completion

Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.

Signature:  Date: 6-5-18
Print Name: WILSON SOTO
Print Title: Supervisor
Contractor Name: Omni Environmental

EFI Field Technician Certification

The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.

Signature:  Date: 6-5-18
Print Name: Kayla Carnes

CERTIFICATE OF VISUAL INSPECTION

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St, Quincy, MA
Containment: C building
Material & Quantity Removed: ~2,000 SF Floor tile & Mastic

Contractor's Certification of Visual Inspection

Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks)

Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.

Signature:  Date: 6-5-18

Print Name: WILSON SOTO

Print Title: Supervisor

Contractor Name: Omni Environmental

EFI Field Technician Certification

The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.

Signature:  Date: 6-5-18

Print Name: Kanya Carner

Certificate of Final Air Clearance

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St., Quincy, MA
Containment: C Building
EFI Project No.: 98350-06932

EFI Certification of Final Air Clearance

THIS CERTIFICATE IS TO CERTIFY THAT FINAL AIR CLEARANCE HAS BEEN ACHIVED FOR THE ABOVE CONTAINMENT WORK AREA. AN AIR SAMPLE CONCENTRATION OF:

0.002
< LOD Fibers per Cubic Centimeter (f/cc)
Using Phased Contrast Microscopy

N/A Structures per Millimeter Squared (f/cc)
Using Transmission Electron Microscopy

Signature: [Signature] Date: 6-5-18

Print Name: Kayla Carnes



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-66932 DATE COLLECTED: 6-5-19 PROJECT MANAGER: Janet Var
CLIENT: fax rock DATE ANALYZED: 6-5-19 PROJECT MONITOR: Keyla Games
PROJECT NAME: QMC - C building final CONTRACTOR: ghm

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)		Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off					
01	Blank	-	-	-	-	-	-	-	0/100	Not Applicable	KC
02	Blank	-	-	-	-	-	-	-	0/100	Not Applicable	KC
03	North East corner room	F	1101	1225	14.3	14.3	84	1201.2	5/100	0.002	KC
04	Main Room North side	F	1104	1225	14.3	14.3	85	1215.5	4.5/100	0.001	KC
05	Main Room South side	F	1107	1233	14.3	13.8	86	1212.6	5.5/100	0.002	KC
06	South corner in room near load at	F	1110	1238	14.3	14.3	88	1258.4	4/100	0.001	KC
07	Center of Hallway near Hecan	F	1115	1241	14.3	14.3	86	1229.6	3.5/100	0.001	KC
08	South east corner in room	F	1117	1245	14.3	13.8	88	1240.8	4.5/100	0.001	KC
09	Duplicate Analysis	F	-	-	-	-	-	1246.8	5/100	0.002	KC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature Bjell Approved By _____

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring's Centered? ☒

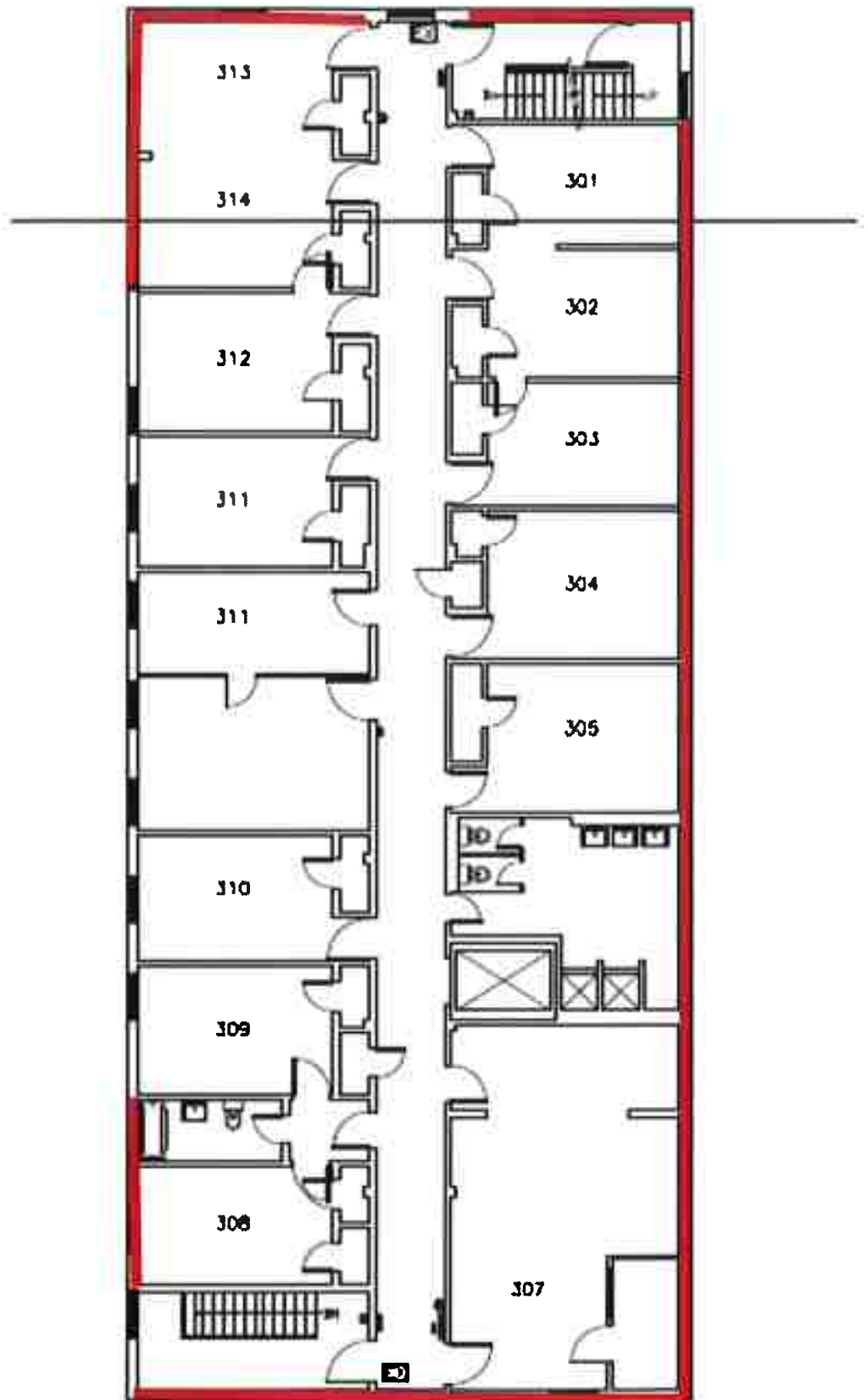
Relinquished by (Lab Use Only): _____ Date: _____

Received by (Lab Use Only): _____ Date: _____

Time: _____

Time: _____

June 5, 2018 Inspection
June 8, 2018 Abatement



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 6-6-18 PROJECT MANAGER: John Varz
CLIENT: Fox Rock DATE ANALYZED: 6-6-18 PROJECT MONITOR: Kayla Carter
PROJECT NAME: QMC - East wing 3rd floor CONTRACTOR: Gmni

Sample ID	Sample Location	Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KE
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KE
03	East wing 3rd floor corridor north	BG	728	1038	8.5	8.5	8.5	190	1,615.0	9.5/100	0.002	KE
04	East wing 3rd floor corridor south	BG	730	1045	8.5	8.5	8.5	189	1,606.5	10/100	0.003	KE
05	East wing 3rd floor corridor north	BG	1157	145	8.5	8.5	8.5	110	935	5.5/100	0.002	KE
06	East wing 3rd floor corridor south	BG	1159	149	8.5	8.5	8.5	110	935	6/100	0.003	KE
07	Duplicate Analysis	BG	-	-	-	-	-	-	935	6/100	0.003	KE

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By -

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

Relinquished by (Lab Use Only):

Date:

Time:

Received by (Lab Use Only):

Date:

Time:



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932

DATE COLLECTED: 6-7-18

PROJECT MANAGER: John Vaz

CLIENT: Fox Rock

DATE ANALYZED: 6-7-18

PROJECT MONITOR: Kayla Carney

PROJECT NAME: QMC - East wing 3rd floor

CONTRACTOR: Omni

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KE
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KE
03	Corridor north side	BG	703 ^{pm}	1017 ^{pm}	8.5	8.5	8.5	194	1,649.0	9/100	6.002	KE
04	Corridor south side	BG	704 ^{pm}	1021 ^{pm}	8.5	8.5	8.5	195	1,657.5	11/100	6.003	KE
05	Corridor north side	BG	1017 ^{pm}	110 ^{pm}	8.5	8.5	8.5	173	1,470.5	10/100	6.003	KE
06	Corridor south side	BG	1021 ^{pm}	115 ^{pm}	8.5	8.5	8.5	174	1,479.0	9.5/100	6.003	KE
07	Duplicate Analysis	BG	-	-	-	-	-	-	1,649.0	11/100	6.003	KE

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm²

Analyst Signature [Signature]

Approved By [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring is Centered? ☒

Relinquished by (Lab Use Only): _____

Date: _____

Received by (Lab Use Only): _____

Date: _____

Time: _____

Time: _____



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PROJECT NUMBER: 9832-06922 DATE COLLECTED: 6-8-18 PROJECT MANAGER: John Vaz
CLIENT: FOX ROCK DATE ANALYZED: 6-8-18 PROJECT MONITOR: Kayla Carver
PROJECT NAME: QMC - Dampproofing Admin & East Wing prep CONTRACTOR: QMC

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	LC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	LC
03	East Wing 3rd Fl North	BG	10:45	10:55	8.5	7.8	8.2	196	1,607.2	14/100	0.004	LC
04	East Wing 3rd Fl South	BG	10:55	11:05	8.5	7.8	8.2	197	1,615.4	13/100	0.003	LC
05	End of Hallway Connector Admin	D	10:55	11:05	10.2	10.2	10.2	196	1,999.2	13.5/100	0.003	LC
06	East wing 3rd Fl	BG	11:08	12:45	8.2	8.2	8.2	97	795.4	7/100	0.004	LC
07	East wing 3rd Fl	BG	11:09	12:46	8.2	8.2	8.2	97	795.4	5/100	0.003	LC
08	End of Hallway Connector Admin	D	11:55	12:46	10.2	10.2	10.2	93	948.0	5.5/100	0.002	LC
09	Duplicate Analysis	BG	-	-	-	-	-	-	795.4	7.5/100	0.004	LC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature: [Signature] Approved By: [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring's Centered? ☒

Relinquished by (Lab Use Only): _____ Date: _____
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Time: _____
Time: _____



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 6-11-18 PROJECT MANAGER: John Uerz
CLIENT: FOX ROCK DATE ANALYZED: 6-11-18 PROJECT MONITOR: Kayla Gones
PROJECT NAME: QMC - Admin final - Round 1 CONTRACTOR: Omni

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)		Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off					
01 A	Blank - Field	-	-	-	-	-	-	-	9/100	Not Applicable	CC
02 A	Blank - Field 3rd fl	-	-	-	-	-	-	-	9/100	Not Applicable	CC
03 A	North west corner 3rd fl	F	430 AM	554 PM	15.6	15.6	84	1,310.4	4.5/100	0.001	CC
04 A	West side 3rd fl	F	432 AM	555 PM	15.6	15.6	80	1,248.0	4/100	0.001	CC
05 A	South west corner 3rd fl	F	434 AM	556 PM	15.6	15.6	82	1,279.2	3.5/100	0.001	CC
06 A	South west corner 2nd floor	F	435 AM	558 PM	15.6	15.6	83	1,294.8	3.5/100	0.001	CC
07 A	West side 2nd floor	F	437 AM	559 PM	15.6	15.2	82	1,262.8	3/100	0.001	CC
08	North west corner 2nd floor	F	438 AM	601 PM	15.6	15.2	83	1,278.2	3.5/100	0.001	CC
09	North west corner 1st floor	F	440 AM	603 PM	15.6	15.6	83	1,294.8	4/100	0.001	CC
10	1st floor Lobby	F	441 AM	605 PM	15.6	15.6	84	1,310.4	4/100	0.001	CC
11	South west - 1st fl stairwell	F	442 AM	608 PM	15.6	15.2	86	1,324.4	4.5/100	0.001	CC
03	Duplicate Analysis	-	-	-	-	-	-	1,310.4	3/100	0.001	CC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature: [Signature] Approved By: [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

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Date: _____
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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 6-11-18 PROJECT MANAGER: John Lee
CLIENT: Fox Rock DATE ANALYZED: 6-11-18 PROJECT MONITOR: Kayla Cerner
PROJECT NAME: QMC - Admin Final - Round 2 CONTRACTOR: Omni

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
12	1st Fl Hallway Connector	F	4:45	6:05	15.6	15.6	15.6	84	1.310.4	4/100	Not Applicable	KE
13	3rd Fl Hallway Northside	F	6:20	7:55	13.6	13.6	13.6	99	1.544.4	3/100	Not Applicable	KE
14	3rd Fl - Hallway Center	F	6:25	8:01	15.2	15.2	15.2	99	1.564.8	2/100	<0.001	KE
15	3rd Fl - Hallway Southside	F	6:25	8:03	15.6	15.6	15.6	98	1.528.8	2.5/100	<0.001	KE
16	2nd Fl Hallway Southside	F	6:27	8:06	14.8	14.8	14.8	99	1.465.2	3.5/100	0.001	KE
17	2nd Fl Hallway Center	F	6:29	8:07	13.5	13.5	13.5	98	1.323.0	2.5/100	<0.001	KE
18	2nd Fl Hallway Northside	F	6:30	8:10	14.2	14.2	14.2	100	1.420.0	3/100	0.001	KE
19	1st Fl Hallway Northside	F	6:32	8:11	13.8	13.8	13.8	99	1.366.2	2.5/100	<0.001	KE
20	1st Fl Main lobby Center	F	6:34	8:14	13.0	13.0	13.0	100	1.300.0	3.5/100	0.001	KE
21	1st Fl Hallway Southside	F	6:37	8:15	15.2	15.2	15.2	98	1.489.4	2/100	<0.001	KE
22	1st Fl Hallway Connector	F	6:39	8:17	13.6	13.6	13.6	98	1.352.4	3/100	0.001	KE
15	Duplicate Analysis	-	-	-	-	-	-	-	1.528.8	2/100	<0.001	KE

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature: [Signature] Approved By: [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

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Date:
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Time:
Time:



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 6-11-16 PROJECT MANAGER: John Vaz
CLIENT: Fox Rock DATE ANALYZED: 6-11-16 PROJECT MONITOR: Kayla Carter
PROJECT NAME: Qmc - Admin final round 3 CONTRACTOR:

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)		Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off					
23	3rd fl - North east corner	F	8:00A	9:33	13.8	13.8	93	1.283.4	3.5/100	Not Applicable	LC
24	3rd fl - East side	F	8:02A	9:34	14.2	14.2	92	1.306.4	1.5/100	Not Applicable	LC
25	3rd fl - South east corner	F	8:06A	9:34	14.2	14.2	88	1.249.6	3.5/100	0.001	LC
26	2nd fl - South east corner	F	8:06A	9:35	14.2	14.2	89	1.263.8	3/100	0.001	LC
27	2nd fl - East side	F	8:09A	9:35	14.2	14.2	86	1.221.2	4/100	0.001	LC
28	2nd fl - North east corner	F	8:10A	9:36	14.8	14.8	86	1.272.8	3.5/100	0.001	LC
29	1st fl - North east corner	F	8:13A	9:37	15.2	15.2	84	1.276.8	2/100	<0.001	LC
30	1st fl - Main lobby	F	8:14A	9:37	15.6	15.6	83	1.294.8	3.5/100	0.001	LC
31	1st fl - South east corner	F	8:16A	9:38	15.6	15.6	82	1.279.2	3/100	0.001	LC
32	1st fl - Hallway connector	F	8:17A	9:38	15.6	15.6	81	1.263.6	2.5/100	<0.001	LC
33	Blank - Lab	-	-	-	-	-	-	-	9/100	N/A	LC
27	Duplicate Analysis	-	-	-	-	-	-	1.281.2	2/100	<0.001	LC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring is Centered? ☒

Relinquished by (Lab Use Only): _____ Date: _____
Received by (Lab Use Only): _____ Date: _____


Time: _____
Time: _____

Certificate of Completion

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St, Quincy, MA
Containment: Admin building
EFI Project No.: 98350-06932

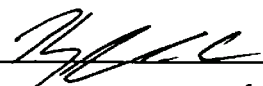
Contractor's Certification of Project Completion

Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.

Signature:  Date: 6-11-18
Print Name: WILSON R. SOTO
Print Title: Supervisor
Contractor Name: Omni Environmental

EFI Field Technician Certification

The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.

Signature:  Date: 6-11-18
Print Name: Kayla Carnes

CERTIFICATE OF VISUAL INSPECTION

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St, Quincy, MA
Containment: Admin Building
Material & Quantity Removed: floor tile & Black mastic - 19,000 SF

Contractor's Certification of Visual Inspection

Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks)

Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.

Signature: [Signature] Date: 6-11-10

Print Name: WILSON R. SOTO

Print Title: Supervisor

Contractor Name: Omni

EFI Field Technician Certification

The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.

Signature: [Signature] Date: 6-11-10

Print Name: Kayla Ginz

Certificate of Final Air Clearance


Project Name: Quincy Medical Center
Project Location: 114 Whitwell St, Quincy, MA
Containment: Admin building
EFI Project No.: 98350-06932

EFI Certification of Final Air Clearance

THIS CERTIFICATE IS TO CERTIFY THAT FINAL AIR CLEARANCE HAS BEEN ACHIVED FOR THE ABOVE CONTAINMENT WORK AREA. AN AIR SAMPLE CONCENTRATION OF:

0.001
< LOD Fibers per Cubic Centimeter (f/cc)
Using Phased Contrast Microscopy

N/A Structures per Millimeter Squared (f/cc)
Using Transmission Electron Microscopy

Signature:  Date: 6-11-18
Print Name: Kayla Carner



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 9856-06932 DATE COLLECTED: 6-12-18 PROJECT MANAGER: John Vaz
CLIENT: FOX ROCK DATE ANALYZED: 6-12-18 PROJECT MONITOR: Kyle Carter
PROJECT NAME: CMC - East wing 3rd fl CONTRACTOR: Omnix

Sample ID	Sample Location	Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	9/100	Not Applicable	KE
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KE
03	End of West Hallway Connector at decan	BG	7:09 AM	10:30 PM	9.2	9.2	9.2	203	1867.6	7.5/100	60.00	J
04	West Hallway Connector at decan	BG	11:48 AM	1:38 PM	9.2	9.2	9.2	110	1612	2.5/100	0.001	J
05	Duplicate Analysis	BG	-	-	-	-	-	-	1612	3/100	0.001	KE

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By _____

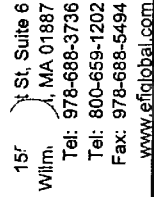
Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring is Centered? ☒

Relinquished by (Lab Use Only): _____ Date: _____

Received by (Lab Use Only): _____ Date: _____

Time: _____

Time: _____



Complex Issues • Solid Solutions

PROJECT MONITOR:
CONTRACTOR:

*Sample Type; BG=Background, P=Pre-abatement, D=During, F= Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm²

Date:



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06532 DATE COLLECTED: 6-14-18 PROJECT MANAGER: John Uez
CLIENT: For Record DATE ANALYZED: 6-19-18 PROJECT MONITOR: Kyle Garner
PROJECT NAME: QMC - Best way 3rd floor - backgrounds CONTRACTOR: OMNI

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KE
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KE
03	3rd fl - Hall connector at deck	D	718 AM	1045 AM	9.2	9.2	9.2	207	1904.4	7.5/100	0.002	KE
04	South Stair Well 2nd floor	D	728 AM	1048 AM	9.2	9.2	9.2	202	1858.4	8.5/100	0.002	KE
05	North Stair Well 3rd floor	D	736 AM	1055 AM	9.2	9.2	9.2	199	1830.8	8/100	0.002	KE
06	3rd fl - Hall connector at deck	D	1108	105	9.2	9.2	9.2	117	1076.4	5/100	0.002	KE
07	South Stair Well 2nd floor	D	1113	108	9.2	9.2	9.2	115	1058.0	4.5/100	0.001	KE
08	North Stair Well 3rd floor	D	1117	115	9.2	9.2	9.2	118	1085.6	4.5/100	0.002	KE
09												
03	Duplicate Analysis	D	-	-	-	-	-	-	1904.4	8/100	0.002	KE

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

Relinquished by (Lab Use Only):
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Date: _____ Time: _____
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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350

DATE COLLECTED: 6-15-18

PROJECT MANAGER: John Ue

CLIENT: Fox Rock

DATE ANALYZED: 6-15-18

PROJECT MONITOR: Kayla Carney

PROJECT NAME: QMC - East wing 3rd floor - back grounds

CONTRACTOR: QMC

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	-	Not Applicable	KE
02	Blank	-	-	-	-	-	-	-	-	-	Not Applicable	KE
03	2nd floor - Hall Connector at decon	D	700	1018	8.5	8.5	8.5	198	1683.0	8/100	0.002	KE
04	South Stairwell 3rd floor	D	708	1022	8.5	8.5	8.5	194	1649.0	7.5/100	0.002	KE
05	North Stairwell 3rd floor	D	710	1025	8.5	8.5	8.5	195	1657.5	8/100	0.002	KE
06	3rd floor - Hall Connector at decon	D	1018	118	8.5	8.5	8.5	180	1530.0	6/100	0.002	KE
07	South Stairwell 3rd floor	D	1022	125	8.5	8.5	8.5	183	1555.5	5.5/100	0.001	KE
08	North Stairwell 3rd floor	D	1025	130	8.5	8.5	8.5	185	1572.5	6/100	0.002	KE
09	Duplicate Analysis	D	-	-	-	-	-	-	1555.5	6/100	0.002	KE

*Sample Type: BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature: [Signature] Approved By: [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring is Centered? ☒

Relinquished by (Lab Use Only):

Date:

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Received by (Lab Use Only):

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Time:



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 6-18-16 PROJECT MANAGER: John Vez
CLIENT: Fox Race DATE ANALYZED: 6-18-16 PROJECT MONITOR: John Vez
PROJECT NAME: QWC - East wing 3rd fl CONTRACTOR: Omn.

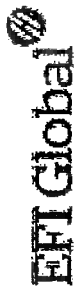
Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	VC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	VC
03	East stairwell 2nd/3rd fl Landing	D	8:10pm	11:20pm	8.5	8.5	8.5	196	1615.0	6/100	0.001	VC
04	South stairwell 2nd/3rd floor Landing	D	8:12pm	11:22pm	9.2	8.5	8.8	190	1615.0	5.5/100	0.001	
05	3rd floor outside decon - Hall way connector	D	8:15pm	11:26pm	9.2	8.5	8.8	191	1680.8	5.5/100	0.001	
06	East stairwell 2nd/3rd fl Landing	BG	11:20pm	12:27pm	8.5	8.5	8.5	122	1037.0	3.5/100	0.001	
07	South stairwell 2nd/3rd fl Landing	BG	11:22pm	12:50pm	8.5	8.5	8.5	123	1048.5	4.5/100	0.002	
08	3rd fl - decon Hallway connector	BG	11:26pm	13:10pm	8.5	8.5	8.5	124	1054.0	5/100	0.002	
09	Duplicate Analysis	BG	-	-	-	-	-	-	1059.0	5/100	0.002	VC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By [Signature]
Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 6/19/18 PROJECT MANAGER: John Vaz
CLIENT: Forster DATE ANALYZED: 6/19/18 PROJECT MONITOR: Richard Murphy
PROJECT NAME: QMC East wing 3rd Floor CONTRACTOR: QMC

Sample ID	Sample Location	*Sample Type	Time On	Time Off	Flow rate Liters/min.	Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result f/cc	Analyst Initials
01	Blank	-	-	-	-	-	-	0/100	Not Applicable	RM
02	Blank	-	-	-	-	-	-	0/100	Not Applicable	RM
03	3rd Floor outside Deco Hallway Corridor	D	0624	1002	8.0	8.0	1744	16/100	.004	RM
04	East Stairwell 3rd Floor Hallway Corridor	D	0627	1005	8.0	8.0	1744	12/100	.003	RM
05	South Stairwell 3rd Floor Hallway Corridor	D	0631	1009	8.0	8.0	1744	14/100	.004	RM
06	3rd Floor outside Deco Hallway Corridor	D	1002	1335	8.0	8.0	1704	14/100	.004	RM
07	East Stairwell 3rd Floor Hallway Corridor	D	1005	1338	8.0	8.0	1704	13/100	.004	RM
08	South Stairwell 3rd Floor Hallway Corridor	D	1007	1342	8.0	8.0	1704	10.5/100	.003	RM
09	Duplicate Analysis	D	0631	1009	8.0	8.0	1744	14/100	.004	RM

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature: RM Approved By: _____

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rinse Centered? ☒

Relinquished by (Lab Use Only): _____ Date: _____

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 6-20-18 PROJECT MANAGER: John Vaz
CLIENT: FOX ROCK DATE ANALYZED: 6-20-18 PROJECT MONITOR: Kayla Carney
PROJECT NAME: Quic - East wing 3rd floor Containment. CONTRACTOR: Omni

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
03	3rd/2nd fl Landing East Stairwell	D	43 AM 8:30	11:30 AM	8:5	8:5	8:5	167	1,419.5	5/100	0.001	
04	3rd fl Landing South Stair well	D	46 AM 8:35	11:35 AM	8:5	8:5	8:5	169	1,436.5	65/100	0.002	
05	3rd fl - cut side Load dock	D	50 AM 8:39	11:39 AM	8:5	8:5	8:5	169	1,436.5	5.5/100	0.001	
06	3rd/2nd fl Landing East Stairwell	D	11:36 AM 8:33	1:33 PM	8:5	8:5	8:5	123	1,045.5	5/100	0.002	
07	3rd fl Landing South Stair well	D	11:35 AM 8:37	1:37 PM	8:5	8:5	8:5	122	1,037.0	4.5/100	0.002	
08	3rd fl - cut side Load dock	D	11:39 AM 8:43	1:43 PM	8:5	8:5	8:5	124	1,054	3.5/100	0.001	
08	Duplicate Analysis	D	-	-	-	-	-	-	1054	3.5/100	0.001	KC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932

DATE COLLECTED: 6-27-18

PROJECT MANAGER: John Vez

CLIENT: Cox-Reich

DATE ANALYZED: 6-21-18

PROJECT MONITOR: Keyla Carter

PROJECT NAME: QMC-

CONTRACTOR: QMC

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	EC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	EC
03	East Stairwell 2nd/3rd fl Landing	D	803 ^h 11 ³⁰ _{am}		8.5	8.5	8.5	207	1759.5	8/100	0.002	
04	South Stairwell 2nd/3rd fl Landing	D	805 ^h 11 ³² _{am}		8.5	8.5	8.5	207	1759.5	7.5/100	0.002	
05	3rd floor OA side decan - hallway connector	D	808 ^h 11 ³⁶ _{am}		8.5	8.5	8.5	208	1768.0	8/100	0.002	
06	East Stairwell 2nd/3rd fl Landing	D	11 ³⁰ _{am} 40 ^{pm}		8.5	8.5	8.5	130	1105	6.5/100	0.002	
07	South Stairwell 2nd/3rd fl Landing	D	11 ³² _{am} 41 ^{pm}		8.5	8.5	8.5	129	1096.5	6/100	0.002	
08	3rd fl - decan. hallway connector	D	11 ³⁶ _{am} 48 ^{pm}		8.5	8.5	8.5	132	6122	5/100	0.002	
08	Duplicate Analysis	D	-	-	-	-	-	-	1122	5/100	0.002	EC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06922 DATE COLLECTED: 6-22-78 PROJECT MANAGER: John Vaz
CLIENT: For Korte DATE ANALYZED: 6-22-78 PROJECT MONITOR: Kayla Curny
PROJECT NAME: QMC - East wing 3rd fl + Admin CONTRACTOR: QMC

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)		Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off					
01	Blank	-	-	-	-	-	-	-	0/100	Not Applicable	EC
02	Blank	-	-	-	-	-	-	-	0/100	Not Applicable	CC
03	East stairwell 2nd/3rd fl Landing	D	7:51 AM	11:14 AM	8.5	8.5	8.5	1725.5	7/100	0.003	/
04	South stairwell 2nd/3rd fl Landing	D	7:54 AM	11:15 AM	8.5	8.5	8.5	1708.5	6/100	0.002	/
05	3rd floor outside deck - hallway connector	D	8:03 AM	11:17 AM	8.5	8.5	8.5	1649.0	6/100	0.002	/
06	East stairwell 2nd/3rd fl Landing	D	11:49 AM	10:48 PM	8.5	8.5	8.5	1071.0	3-5/100	0.001	/
07	South stairwell 2nd/3rd fl Landing	D	11:45 AM	10:48 PM	8.5	8.5	8.5	977.5	3/100	0.001	/
08	3rd fl 100'-decan hallway connector	D	11:17 PM	11:51 PM	8.5	8.5	8.5	1011.5	2.5/100	0.001	/
09	Duplicate Analysis	D	-	-	-	-	-	1725.5	7/100	0.002	EC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature

Approved By

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring's Centered? ☒

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CERTIFICATE OF VISUAL INSPECTION

Project Name: Quincy Medical Center

Project Location: 114 Whitwell St., Quincy, MA

Containment: East wing 3rd floor

Material & Quantity Removed: 5,100 sf floor tile & Mastix,

Contractor's Certification of Visual Inspection

Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks)

Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.

Signature:  **Date:** 6-22-18

Print Name: WILSON SOTO

Print Title: Supervisor

Contractor Name: Omni

EFI Field Technician Certification

The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.

Signature:  **Date:** 6-22-18

Print Name: Kayla Carnes



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932

DATE COLLECTED: 6-25-18

PROJECT MANAGER: John Vaz

CLIENT: FOX ROCK

DATE ANALYZED: 6-25-18

PROJECT MONITOR: Kayla Carter

PROJECT NAME: QMC - East wing 3rd floor Cma

CONTRACTOR: Omnir

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01 A	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	LC
02 A	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	LC
03	West wing Hallway connector north	P	835am	1001am	15.6	13.2	15.4	84	1,324.4	3/100	0.001	LC
04	West wing Hallway connector south	F	850am	1001am	15.6	15.6	15.6	85	1,326.0	4/100	0.001	LC
05	Hallway near pre-testing Room	F	840am	1004am	15.6	15.6	15.6	84	1,310.4	2.5/100	0.001	LC
06	Hallway near Boys room fountain	F	841am	1005am	15.6	15.2	15.4	84	1,293.6	3/100	0.001	LC
07	Hallway center north	F	845am	1007am	15.6	15.6	15.6	82	1,279.2	3/100	0.001	LC
08	Hallway center south	F	846am	1008am	15.6	15.6	15.6	82	1,279.2	2/100	0.001	LC
09	South side of Containment West of Hallway	F	848am	1008am	15.6	15.4	15.4	80	1,248.0	3.5/100	0.001	LC
10	South side of Containment East of Hallway	F	850am	1010am	15.6	15.6	15.6	80	1,248.0	3/100	0.001	LC
04	Duplicate Analysis	F	-	-	-	-	-	-	1,326.0	3/100	0.001	LC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature]

Approved By -

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring centered? ☒

Relinquished by (Lab Use Only):

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 6-25-13 PROJECT MANAGER: John Vaz
CLIENT: FOX ROCK DATE ANALYZED: 6-25-13 PROJECT MONITOR: Kayla Carter
PROJECT NAME: QMC - East wing 3rd floor CONTRACTOR: Omni

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01B	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
02B	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
11	West wing Hallway Connector North	F	1058	1235	15.2	15.2	15.2	97	1,474.4	3/100	6.001	KC
12	West wing Hallway Connector South	F	1059	1236	15.2	15.2	15.2	97	1,474.4	2.5/100	6.001	KC
13	Hallway near pre-testing Room	F	1104	1240	15.6	15.6	15.4	96	1,497.6	2/100	6.001	KC
14	Hallway near Boys Room & Fountain	F	1105	1241	15.6	15.6	15.4	96	1,497.6	2.5/100	6.001	KC
15	Hallway Center North	F	1106	1241	15.6	15.6	15.4	93	1,450.8	2/100	6.001	KC
16	Hallway Center South	F	1108	1242	15.6	15.6	15.4	94	1,466.4	3/100	0.001	KC
17	South side of Containment West of Hallway	F	1111	1245	15.6	15.6	15.4	94	1,466.4	1/100	6.001	KC
18	South side of Containment East of Hallway	F	1112	1246	15.2	15.2	15.2	94	1,428.8	1.5/100	6.001	KC
19	Duplicate Analysis	F	-	-	-	-	-	-	1,474.4	3/100	6.001	KC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring is Centered? ☒

Relinquished by (Lab Use Only): _____ Date: _____

Received by (Lab Use Only): _____ Date: _____

Time: _____

Time: _____

Certificate of Completion

Project Name: Quincy Medical Center

Project Location: 114 Whitwell St., Quincy, MA

Containment: East Wing 3rd Fl

EFI Project No.: 98350-06932

Note: Visual Inspection completed Friday 6.22.18

Contractor's Certification of Project Completion

Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.

Signature:  Date: 6-25-18

Print Name: WILSON SOTO

Print Title: Supervisor

Contractor Name: Omni

EFI Field Technician Certification

The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.

Signature:  Date: 6-25-18

Print Name: Kayla Carnes

Certificate of Final Air Clearance


Project Name: Quincy Medical Center
Project Location: 114 Whitwell St, Quincy, MA
Containment: East Wing 3rd floor
EFI Project No.: 98350-06932

EFI Certification of Final Air Clearance

THIS CERTIFICATE IS TO CERTIFY THAT FINAL AIR CLEARANCE HAS BEEN ACHIVED FOR THE ABOVE CONTAINMENT WORK AREA. AN AIR SAMPLE CONCENTRATION OF:

0.00
<LOD Fibers per Cubic Centimeter (f/cc)
Using Phased Contrast Microscopy

N/A Structures per Millimeter Squared (f/cc)
Using Transmission Electron Microscopy

Signature:  Date: 6-25-8
Print Name: Kyla Carnar



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 96350-06932 DATE COLLECTED: 6-26-18 PROJECT MANAGER: John Var
CLIENT: Fox Rock DATE ANALYZED: 6-26-18 PROJECT MONITOR: Kayla Carras
PROJECT NAME: QMC - 3rd Fl East wing four down CONTRACTOR: Omni

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	LC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	LC
03	East wing 3rd floor decan	BG	745 pm	1028 pm	9.1	9.1	9.1	159	1,446.9	10/100	0.003	LC
04	Basement elevator lobby	BG	755 pm	1035 pm	9.1	9.1	9.1	160	1,456.0	11.5/100	0.003	LC
05	East wing 3rd floor decan	BG	1058 pm	1236 pm	9.1	9.1	9.1	98	891.8	9/100	0.005	LC
06	Basement elevator lobby	BG	1108 pm	1242 pm	9.1	9.1	9.1	102	928.2	10.5/100	0.005	LC
04	Duplicate Analysis	BG	-	-	-	-	-	-	1,456.0	11/100	0.003	LC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: ☒ HSE/NPL Slide ☒ Phase Rings Centered? ☒

Relinquished by (Lab Use Only): _____ Date: _____

Received by (Lab Use Only): _____ Date: _____

Time: _____

Time: _____

PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98250-06922

CLIENT: Fox Bank

PROJECT NAME: Primary Medical

DATE COLLECTED:

DATE ANALYZED:

811870

6/28/18

PROJECT MANAGER:

PROJECT MONITOR:

CONTRACTOR:

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	[Signature]
02	Blank	-	-	-	-	-	-	-	0/100	Not Applicable		
01	Outside and Floor Cont.	0	0945	1300	10-	10-	10-	195	1950	17	0.004	
02	3rd Floor Landing	0	1030	1301	10-	10-	10-	151	1510	12	0.004	
02	Duplicate Analysis											
*Sample Type; BG=Background; B=Pre-Background; D=Duplicate												

Sample Type	BG=Background	P=Pre-Exposure	D=During	F=Final Clearance	Analytical Method	Limit of Detection
151	150	10	0.103		NIOSH 7400	7 fibers/mm ²

Analyst Signature

Approved By

Microscope Model: J1m us H- Daily Calibration: HSE/NPL Slide ☒ Phase Ring's Centered2

Relinquished by (Lab Use Only):

Date:

Time:

Date:

Time:



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06032

CLIENT: Fox Rock

PROJECT NAME: QWC - East Wing - 2nd Floor

DATE COLLECTED: 6-29-78

DATE ANALYZED: 6-29-78

PROJECT MANAGER: John Var

PROJECT MONITOR: Keyla Cyreny

CONTRACTOR: GMI

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	6/100	Not Applicable	CCC
02	Blank	-	-	-	-	-	-	-	-	0/1000	Not Applicable	CCC
03	2nd Fl out side decan - East stairwell	D	748 min	1111 min	9.2	9.2	9.2	203	1,867.6	8/100	0-002	CCC
04	2nd Fl out side Load out - elevator lobby	D	759 min	1115 min	9.2	9.2	9.2	196	1,803.2	8.5/100	0-002	CCC
05	South stairwell	D	810 min	1118 min	9.2	9.2	9.2	188	1,729.6	7.5/100	0-002	CCC
06	2nd Fl out side decan - East stairwell	D	1111 min	128 min	9.2	9.2	9.2	137	1,260.4	6/100	0-002	CCC
07	2nd Fl out side Load out - elevator lobby	D	1115 min	132 min	9.2	9.2	9.2	137	1,260.4	7/100	0-002	CCC
08	South stairwell	D	1118 min	137 min	9.2	9.2	9.2	139	1,278.8	9/100	0-003	CCC
08	Duplicate Analysis	D	-	-	-	-	-	-	1,278.8	9/100	0-003	CCC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm²

Analyst Signature

Approved By

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

Relinquished by (Lab Use Only):

Received by (Lab Use Only):

Date:

Date:

Time:

Time:


CERTIFICATE OF VISUAL INSPECTION

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St., Quincy, MA
Containment: Admin bldg - glove bags
Material & Quantity Removed: ACM Corrugated pipe wrap. 1000 LF

Contractor's Certification of Visual Inspection


Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks)

Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.

Signature:  Date: 6-29-18
Print Name: Wilson R. Soto
Print Title: Supervisor
Contractor Name: Omn.

EFI Field Technician Certification

The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.

Signature:  Date: 6-29-18
Print Name: Kyla Carner



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 9530020-00026 DATE COLLECTED: 7-2-18 PROJECT MANAGER: John Vaz
CLIENT: Cox Ro-C DATE ANALYZED: 7-2-18 PROJECT MONITOR: Keyla Griner
PROJECT NAME: QPR - Eastwing 2nd + 3rd Fl CONTRACTOR: Omni

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
03	Eastwing - 2nd Fl Back stair	D	722	1050	8.5	8.5	8.5	208	1,768.0	6/100	0.001	KC
04	Eastwing - 2nd Fl Back stair	D	728	1055	8.5	8.5	8.5	207	1,781.5	7/100	0.001	KC
05	East wing - 2nd Fl Back stair	D	732	1100	8.5	8.5	8.5	208	1,768.0	6/100	0.001	KC
06	East wing - 2nd Fl Back stair	D	1054	1339	8.5	8.5	8.5	163	1,385.5	5.5/100	0.001	KC
07	East wing - 2nd Fl Back stair	D	1055	139	8.5	8.5	8.5	164	1,359.0	6.5/100	0.002	KC
08	East wing - 2nd Fl Back stair	D	1100	145	8.5	8.5	8.5	165	1,402.5	6/100	0.002	KC
68	Duplicate Analysis	D	-	-	-	-	-	-	1402.5	7/100	0.002	KC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

Relinquished by (Lab Use Only):

Date:

Time:

Received by (Lab Use Only):

Date:

Time:



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 030.00026 DATE COLLECTED: 7-3-18 PROJECT MANAGER: John Vaz
CLIENT: Fox Rock DATE ANALYZED: 7-3-18 PROJECT MONITOR: Kayle Carney
PROJECT NAME: QMC - East wing 2nd fl Contractor: QMC

Sample ID	Sample Location	Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	VC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	VC
03	East wing 2nd fl At decan	BG	6:55h	9:05h	8:5	8:5	8:5	126	1,071.0	6/100	0.002	
04	East wing 2nd fl Back stairs	BG	7:05h	9:11h	8:5	8:5	8:5	125	1,062.5	5/100	0.002	
05	East wing 2nd fl At water cool out	BG	7:12h	9:16h	8:5	8:5	8:5	124	1,054.0	5.5/100	0.002	
06	East wing 2nd fl At decan	BG	9:05h	10:32h	8:5	8:5	8:5	87	789.5	4/100	0.002	
07	East wing 2nd fl Back stairs	BG	9:11h	10:35h	8:5	8:5	8:5	84	714.0	3/100	0.002	
08	East wing 2nd fl At water cool out	BG	9:16h	10:41h	8:5	8:5	8:5	85	722.5	3/100	0.002	
68	Duplicate Analysis	BG	-	-	-	-	-	-	722.5	3/100	0.002	VC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

Relinquished by (Lab Use Only):

Date:

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Received by (Lab Use Only):

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Time:



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 93350-06932

DATE COLLECTED: 7/5/18

PROJECT MANAGER: J. Vaz

CLIENT: Fox Rock

DATE ANALYZED: 7/9/18

PROJECT MONITOR: Kayla Come

PROJECT NAME: QMC

CONTRACTOR: QMC

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	-	Not Applicable	KE
02	Blank	-	-	-	-	-	-	-	-	-	Not Applicable	KE
03	EW-2nd Floor - At Deck	Aren	6:21	10:11	8.5	8.5	8.5	230	1955	7.5/100	0.001	
04	EW-2nd Floor - Back Stairs		6:22	10:13	8.5	8.5	8.5	230	1955	7/100	0.001	
05	EW-2nd Floor - At Waste Loadout		6:25	10:17	8.5	8.5	8.5	232	1972	4/100	0.001	
06	EW-2nd Floor - At Deck		10:12	13:22	8.5	8.5	8.5	190	1615	7/100	0.002	
07	EW-2nd Floor - At Back Stairs		10:14	13:24	8.5	8.5	8.5	190	1615	6.5/100	0.002	
08	EW-2nd Floor - At Waste Loadout		10:18	13:27	8.5	8.5	8.5	189	1607	5/100	0.001	
09	Duplicate Analysis		-	-	-	-	-	-	1.615	6/100	0.002	KE

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature Ngan Approved By _____

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

Relinquished by (Lab Use Only): _____

Date: _____

Received by (Lab Use Only): _____

Date: _____

Time: _____

Time: _____

CERTIFICATE OF VISUAL INSPECTION

Project Name: Quincy Medical Center

Project Location: 114 Whitwell St, Quincy, WA

Containment: East Wing 3rd floor.

Material & Quantity Removed: 500 LF pipe insulation / fittings
stick pins

Contractor's Certification of Visual Inspection

Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks)

Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.

Signature: Wilson Soto Date: 7-5-18

Print Name: Wilson Soto

Print Title: Supervisor

Contractor Name: Omni

EFI Field Technician Certification

The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.

Signature: [Signature] Date: 7-5-18

Print Name: Kayla Carner

Client Name: Ford Rock Project #: 43350-06532 Lab ID: Microscope Cleaned: Sept '17
 Client Address: 1501 Microscope Number: 1501 Pass HSE-NPL Test Slide & Date: 7/6/18
 Collection Date: 7/6/18 Ref. Slide Data (No. & fib/fld): 7618 3/100 Graticule Field Area (mm²): 0.00785
 Collected By: 3.102 Phase Rings Aligned: yes Analyzed By: Kayla Collins
 Project Location: QMC-EN 2nd Floor

Sample #	Location or Worker Name / SSN / Task	Sample Type (1-10)	Pump On hh:mm	Pump Off hh:mm	Time (Mins)	Rotometer Flow Rate (LPM)	Volume (Liters) A * B =	LOQ (2.7 / C)	Actual Count (F/Flds)	Adjusted Count * (F/Flds)	Result * (F/CC)	Analyst ID Initials
01	Blank											
02	Field Blank											
03	East Wing 2nd Floor Sample 1	1	6:06	10:14	246	8.5	2091	0.001	85/100	—	0.002	KC
04	East Wing 2nd Floor Sample 2	1	6:10	10:17	247	8.5	2100	0.001	91/100	—	0.002	KC
05	East Wing 2nd Floor Sample 3	1	6:12	10:20	246	8.5	2108	0.001	91/100	—	0.002	
06	East Wing 2nd Floor Sample 4	1	6:15	12:41	84	8.5	714	0.003	65/100	—	0.004	
07	East Wing 2nd Floor Sample 5	1	10:16	12:43	85	8.5	723	0.003	61/100	—	0.004	
08	East Wing 2nd Floor Sample 6	1	10:21	12:46	85	8.5	723	0.003	45/100	—	0.003	
08	Duplicate Analysis								4/100			KC
	QA/QC Calculation										Pass/Fail	KC

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.
 If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)
 For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is (fib/flds)*385/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background	3) Asbestos Removal	5) Glove Bag Evolutions	6) Personal Air Sample	9) Other Associated Work
	2) Pre-Abatement/Prep	4) Final Cleaning	7) Final Air Clearance	8) Waste Load-Out	10) Blank

Comments: _____
 Analyzed By: [Signature] Date: 7/18/18
 Relinquished By: [Signature] Date: 7/18/18
 Received By: _____ Date: _____



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 9850-06932 DATE COLLECTED: 7-9-18 PROJECT MANAGER: John Vez
CLIENT: FOX ROCK DATE ANALYZED: 7-9-18 PROJECT MONITOR: Kyle Barnes
PROJECT NAME: QMC - East wing 2nd floor CONTRACTOR: Omni

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	CC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	CC
03	East stair well 2nd floor	D	716A	1617A	8.5	8.5	8.5	181	1,538.5	7/100	0.002	CC
04	South stair well 2nd floor	D	720A	1622A	8.5	8.5	8.5	182	1,547.0	8.5/100	0.002	CC
05	2nd floor elevator lobby - Load out	D	724A	1628A	8.5	8.5	8.5	184	1,564.0	10/100	0.003	CC
06	East stair well 2nd floor	D	1017A	1179A	8.5	8.5	8.5	180	1,530.0	8.5/100	0.002	CC
07	South stair well 2nd floor	D	1020A	1191A	8.5	8.5	8.5	177	1,504.5	8/100	0.002	CC
08	Elevator lobby and 2nd floor load out	D	1028A	1251A	8.5	8.5	8.5	177	1,504.5	11/100	0.003	CC
09	Duplicate Analysis	D	-	-	-	-	-	-	1,547.0	8/100	0.002	CC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature]

Approved By [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring's Centered? ☒

Relinquished by (Lab Use Only): _____

Date: _____

Received by (Lab Use Only): _____

Date: _____

Time: _____

Time: _____



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932

DATE COLLECTED: 7-10-16

PROJECT MANAGER: John Var

CLIENT: Fox Rock

DATE ANALYZED: 7-10-16

PROJECT MONITOR: Kayla Carter

PROJECT NAME: QMAC - East wing 2nd Fl

CONTRACTOR: Omni

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
03	East stairwell 2nd floor	D	709pm	1013pm	8.5	8.5	8.5	190	1,615	7.5/100	0-002	KC
04	South stairwell 2nd floor	D	707pm	1017pm	8.5	8.5	8.5	190	1,615	7.5/100	0-002	KC
05	Elevator lobby 2nd floor - load on	D	712pm	1023pm	8.5	8.5	8.5	191	1,623.5	4/100	0-001	KC
06	East stairwell 2nd floor	D	1013pm	1106pm	8.5	8.5	8.5	177	1,504.5	5.5/100	0-001	KC
07	South stairwell 2nd floor	D	1017pm	115pm	8.5	8.5	8.5	178	1,513.0	6/100	20-002	KC
08	Elevator lobby 2nd floor - load on	D	1023pm	118pm	8.5	8.5	8.5	175	1,487.5	5/100	0-001	KC
07	Duplicate Analysis	D	-	-	-	-	-	-	1,513.0	6.5/100	0-002	KC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature

Approved By

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring's Centered? ☒

Relinquished by (Lab Use Only):

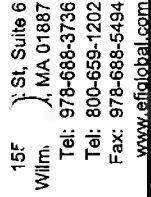
Date:

Time:

Received by (Lab Use Only):

Date:

Time:



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Labu 162

John V. ...
Kyle Carno.

CONTRACTOR: Omi

*Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance

Approved By

Phase Rings Centered? ☒

Date:

Date:

Time:



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 7-12-18 PROJECT MANAGER: John Vez
CLIENT: Fox Rock DATE ANALYZED: 7-12-18 PROJECT MONITOR: Michael McLaughlin
PROJECT NAME: QMC - East Wing 2nd Fl CONTRACTOR: Omni Chemicals Eush3

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	-	Not Applicable	CE
02	Blank	-	-	-	-	-	-	-	-	-	Not Applicable	CE
03	2nd floor East Stairwell landing South Stairwell	D	6:14 AM	9:35	8.5	8.5	8.5	194	1.679	5/100	5003	CE
04	2nd floor East Stairwell landing	D	6:17	9:39	8.5	8.5	8.5	197	1.674.5	4.5/100	5003	CE
05	2nd floor East Stairwell landing	D	6:20	9:44	8.5	8.5	8.5	195	1.657.5	3/100	5003	CE
06	2nd floor East Stairwell landing	D	9:36	1:08	8.5	8.5	8.5	208	1.768	5/100	5003	CE
07	2nd floor East Stairwell landing	D	9:40	1:11	8.5	8.5	8.5	211	1.7793.5	6/100	5003	CE
08	2nd floor East Stairwell landing	D	9:45	1:15	8.5	8.5	8.5	210	1.785	7/100	5003	CE
Duplicate Analysis												

*Sample Type: BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

Relinquished by (Lab Use Only): _____ Date: _____

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 209 98350-06932

DATE COLLECTED: 7-13-18

PROJECT MANAGER: John Vaz

CLIENT: Fox Rock

DATE ANALYZED: 7-13-18

PROJECT MONITOR: Nick McCarthy

PROJECT NAME: CMC - East Wing

CONTRACTOR: Omni

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KE
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KE
03	outside Boiler room demo	BG	7:50	9:58	7.5	7.5	7.5	128	960.0	5/100	0.002	
04	outside boiler room demo	BG	7:50	10:00	7.5	7.5	7.5	130	975.0	5.5/100	0.002	
05	east stairwell 1st floor landing	BG	10:22	12:25	8.5	8.5	8.5	121	1028.5	7/100	0.003	
06	south stairwell 1st floor landing right below 2nd floor	BG	10:15	12:25	8.5	8.5	8.5	120	1020.0	6.5/100	0.003	
07	Elevator lobby - 1st floor lobby	BG	10:20	12:26	8.5	8.5	8.5	126	1071.0	7/100	0.003	
08	Duplicate Analysis	BG	-	-	-	-	-	-	1020.0	6/100	0.003	KE

*Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm²

Analyst Signature [Signature]

Approved By _____

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring is Centered? ☒

Relinquished by (Lab Use Only): _____

Received by (Lab Use Only): _____

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Date: _____

Time: _____

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 7-16-18 PROJECT MANAGER: John Vaz
CLIENT: Fox Rock DATE ANALYZED: 7-16-18 PROJECT MONITOR: Kayla Barnes
PROJECT NAME: QMC - East wing and floor area CONTRACTOR: Omni

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
03	West wing Hall way connector room	F	512 ^{pm}	638 ^{pm}	15.2	15.2	15.2	86	1,307.2	3/100	0.001	
04	West wing Hall Way connector room	F	515 ^{pm}	640 ^{pm}	15.2	15.2	15.2	85	1,292.0	2.5/100	0.001	
05	Hall way near East stairwell/decu	F	518 ^{pm}	641 ^{pm}	15.2	14.8	15.0	83	1,245.0	4/100	0.001	
06	Hallway center Inter-section	F	521 ^{pm}	643 ^{pm}	15.2	15.2	15.2	82	1,246.4	3.5/100	0.001	
07	Hallway near fountain	F	525 ^{pm}	646 ^{pm}	15.2	14.8	15.0	80	1,200.0	2.5/100	0.001	
08	Hallway center north	F	527 ^{pm}	648 ^{pm}	15.2	14.8	15.0	81	1,215.0	2/100	0.001	
09	Hallway center south	F	531 ^{pm}	652 ^{pm}	15.2	15.2	15.2	81	1,231.2	2/100	0.001	
10	South side of containment West of Hallway	F	532 ^{pm}	654 ^{pm}	15.2	15.2	15.2	81	1,231.2	2.5/100	0.001	
11	South side of containment East of Hallway	F	536 ^{pm}	656 ^{pm}	15.2	15.2	15.2	80	1,216	1.5/100	0.001	
03	Duplicate Analysis	F	-	-	-	-	-	-	1,307.2	2.5/100	0.001	

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

Relinquished by (Lab Use Only):

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 7-16-18 PROJECT MANAGER: John Var
CLIENT: FOX ROCK DATE ANALYZED: 7-16-18 PROJECT MONITOR: Kayla Carner
PROJECT NAME: QMC - East Wing 2nd Floor Area CONTRACTOR: Omni

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)		Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off					
01	Blank	-	-	-	-	-	-	-	0/100	Not Applicable	VC
02	Blank	-	-	-	-	-	-	-	0/100	Not Applicable	VC
12	West wing Hallway Connector North	F	38 6 AM	805 ^h	15.2	15.2	15.2	87	1,322.4	3.5/100	0.001
13	West wing Hallway Connector South	F	40 6 AM	807 ^h	15.2	15.2	15.2	87	1,322.4	1.5/100	0.001
14	Hallway near East Stairwell / Elevator	F	41 6 AM	808 ^h	15.2	15.2	15.2	87	1,322.4	2.5/100	0.001
15	Hallway center Inter- section	F	43 6 AM	809 ^h	15.2	15.2	15.2	86	1,307.2	2/100	0.001
16	Hallway near Fountain	F	45 6 AM	812 ^h	15.2	15.2	15.2	87	1,322.4	3/100	0.001
17	Hallway Center North	F	48 6 AM	813 ^h	15.2	14.8	15.0	85	1,275	1/100	0.001
18	Hallway Center South	F	49 6 AM	815 ^h	15.2	14.8	15.0	86	1,240.0	2.5/100	0.001
19	South side of containment west of Hallway	F	54 6 AM	818 ^h	15.2	15.2	15.2	84	1,231.2	2.5/100	0.001
20	South side of containment East of Hallway	F	56 6 AM	818 ^h	15.2	15.2	15.2	83	1,246.4	2/100	0.001
20	Duplicate Analysis	F	-	-	-	-	-	-	1,246.4	2/100	0.001

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

Relinquished by (Lab Use Only):
Received by (Lab Use Only):

Date:
Date:

Time:
Time:

Certificate of Completion

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St., Quincy, MA
Containment: East Wing 2nd Fl
EFI Project No.: 98350-06932

Contractor's Certification of Project Completion

Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.

Signature: Wilson Sato (Kc) Date: 7-16-18
Print Name: Wilson Sato (Kc)
Print Title: Supervisor
Contractor Name: Omni Environmental

EFI Field Technician Certification

The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.

Signature: [Signature] Date: 7-16-18
Print Name: Kayla Carnes

CERTIFICATE OF VISUAL INSPECTION

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St., Quincy, MA
Containment: East Wing 2nd Fl
Material & Quantity Removed: 8,500 SF Floor tile & Mastic

Contractor's Certification of Visual Inspection

Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks)

Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.

Signature: Wilson Soto Date: 7-16-18

Print Name: Wilson Soto

Print Title: Supervisor

Contractor Name: Omni Environmental

EFI Field Technician Certification

The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.

Signature: Kayla Carnes Date: 7-16-18

Print Name: Kayla Carnes

Certificate of Final Air Clearance


Project Name: Quincy Medical Center
Project Location: 114 Whitwell St., Quincy, MA
Containment: East Wing - 2nd Fl
EFI Project No.: 98350-06932

EFI Certification of Final Air Clearance

THIS CERTIFICATE IS TO CERTIFY THAT FINAL AIR CLEARANCE HAS BEEN ACHIVED FOR THE ABOVE CONTAINMENT WORK AREA. AN AIR SAMPLE CONCENTRATION OF:

0.001
<LOD Fibers per Cubic Centimeter (f/cc)
Using Phased Contrast Microscopy

N/A Structures per Millimeter Squared (f/cc)
Using Transmission Electron Microscopy

Signature:  Date: 7-16-18
Print Name: Kayla Carnes



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932

DATE COLLECTED: 7/17/18

PROJECT MANAGER: John Vaz

CLIENT: Fox Rock

DATE ANALYZED:

PROJECT MONITOR: Nick McCarthy

PROJECT NAME: QMC - east wing - Backgrounds

CONTRACTOR: CMMI

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)		Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off					
01	Blank	-	-	-	-	-	-	-	-	Not Applicable	KC
02	Blank	-	-	-	-	-	-	-	-	Not Applicable	KC
03	outside boiler house	BG	6:56	10:27	7.5	7.5	206	1545.0	6/100	<0.002	
04	outside boiler house	BG	6:58	10:24	7.5	7.5	206	1545.0	5.5/100	<0.002	
05	1st floor elevator lobby area	BG	7:04	10:28	8.5	8.5	204	1734.0	8/100	0.002	
06	1st floor landing outside containment	BG	7:07	10:29	8.5	8.5	202	1717.0	8.5/100	0.002	
07	1st floor back entrance hallway	BG	7:11	10:30	8.5	8.5	199	NM 1691.5	6.5/100	0.001	
08	outside boiler house	BG	10:26	1:30	7.5	7.5	184	1380.0	8/100	0.002	
09	outside boiler house	BG	10:27	1:28	7.5	7.5	181	1357.5	6.5/100	0.002	
10	1st floor back entrance hallway	BG	10:30	1:22	8.5	8.5	178	1513.0	6.5/100	0.002	
11	1st floor elevator lobby	BG	10:32	1:24	8.5	8.5	172	1462.0	5/100	0.001	
04	Duplicate Analysis	BG	-	-	-	-	-	1545.0	5/100	0.001	KC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature

Approved By

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring is Centered? ☒

Relinquished by (Lab Use Only):

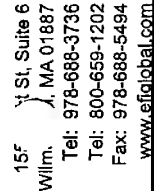
Date:

Time:

Received by (Lab Use Only):

Date:

Time:



PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932

DATE COLLECTED:

8/17/18

PROJECT MANAGER:

CLIENT: Fox DATE ANALYZED: 6/25/05

PROJECT MONITOR:

PROJECT NAME:

**PROJECT MONITOR:
CONTRACTOR.**

[illegible]

*Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm²

Analyst Signature

Approved By _____

Microscope Model: Olympus CH-2 Daily Calibration: ☒ HSE/NPL Slide ☐ Phase Rings Centered?

Relinquished by (Lab Use Only):

Date:

Received by (Lab Use Only):

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932

DATE COLLECTED: 7/18/18

PROJECT MANAGER: John Vaz

CLIENT: Fox Rock

DATE ANALYZED:

PROJECT MONITOR: Nick McCarthy

PROJECT NAME: QMC - east wing 1st floor

CONTRACTOR: Omni

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
03	1st floor elevator lobby	BB	6:32	10:15	7.5	7.5	7.5	223	1672.5	5.5/100	0.001	
04	1st floor stair landing	BB	6:34	10:15	8.5	8.5	8.5	221	1878.5	6.5/100	0.001	
05	1st floor back entrance main hall	BB	6:36	10:14	7.5	7.5	7.5	218	1635.0	5/100	0.001	
06	outside boiler house	BB	6:46	10:20	8.5	8.5	8.5	214	1819.0	8/100	0.002	
07	outside boiler house	BB	6:48	10:22	8.5	8.5	8.5	214	1819.0	9/100	0.002	
08	1st floor back entrance main hall	BB	10:15	1:15	7.5	7.5	7.5	180	1350.0	5/100	0.001	
09	1st floor elevator lobby	BB	10:17	1:17	7.5	7.5	7.5	180	1350.0	7.5/100	0.002	
10	outside boiler room containment	BB	10:26	1:20	8.5	8.5	8.5	174	1479.0	6/100	0.002	
11	outside boiler room containment	BB	10:28	1:22	8.5	8.5	8.5	174	1479.0	5/100	0.001	
08	Duplicate Analysis	BB	-	-	-	-	-	-	1358.0	5.5/100	0.001	KC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature BVC Approved By -

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring's Centered? ☒

Relinquished by (Lab Use Only):

Date:

Time:

Received by (Lab Use Only):

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932

DATE COLLECTED: 7/19/18

PROJECT MANAGER: John Vaz

CLIENT: Fox Rock

DATE ANALYZED:

PROJECT MONITOR: Nick McCarthy

PROJECT NAME: QM1 - east wing 1st floor - Backgrnds.

CONTRACTOR: Cmi

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)		Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off					
01	Blank	-	-	-	-	-	-	-	-	Not Applicable	KC
02	Blank	-	-	-	-	-	-	-	-	Not Applicable	KC
03	1st floor back entrance main hall	BG	6:20	10:50	7.5	7.5	270	2025.0	8/100	0.002	
04	1st floor elevator lobby	BG	6:22	10:52	7.5	7.5	270	2025.0	10/100	0.002	
05	outside boiler house	BG	6:30	10:54	8.5	8.5	264	2244.0	12/100	0.002	
06	outside boiler house	BG	6:32	10:55	8.5	8.5	263	2235.5	15/100	0.003	
07	1st floor back entrance main hall	BG	10:56	124	7.5	7.5	148	1110.0	5/100	0.002	
08	1st floor elevator lobby	BG	10:58	126	7.5	7.5	148	1110.0	4.5/100	0.002	
09	outside boiler house	BG	11:01	130	8.5	8.5	149	1266.5	6/100	0.002	
10	outside boiler house	BG	11:03	132	8.5	8.5	149	1266.5	6.5/100	0.002	
07	Duplicate Analysis	BG	-	-	-	-	-	2025.0	8/100	0.002	pe

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature

Approved By

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered?

Relinquished by (Lab Use Only):

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 7/20/18 PROJECT MANAGER: Thy Laz
CLIENT: For Rock DATE ANALYZED: 7/20/18 PROJECT MONITOR: Nick McCarthy
PROJECT NAME: Q14C - east wing/boiler house - 1st floor Backgrounds CONTRACTOR: Oran

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
03	1st floor back entrance, main hall	BG	6:15	9:58	8:5	8:5	8:5	223	1,895.5	7/100	0.001	
04	1st floor elevator lobby	BG	6:17	9:59	8:5	8:5	8:5	222	1,887.0	8.5/100	0.002	
05	outside boiler house	BG	6:25	10:10	8:5	8:5	8:5	225	1,912.5	9.5/100	0.002	
06	outside boiler house	BG	6:27	10:11	8:5	8:5	8:5	224	1,904.0	9/100	0.002	
07	1st floor back entrance main hall	BG	10:00	12:30	8:5	8:5	8:5	150	1,275.0	4/100	0.001	
08	1st floor elevator lobby	BG	10:02	12:32	8:5	8:5	8:5	150	1,275.0	5/100	0.002	
09	outside boiler house	BG	10:12	12:40	8:5	8:5	8:5	156	1,326.0	6.5/100	0.002	
10	outside boiler house	BG	10:14	12:42	8:5	8:5	8:5	156	1,326.0	6/100	0.002	
08	Duplicate Analysis	BG	-	-	-	-	-	-	1,275.0	6/100	0.002	KC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F = Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 7-23-18 PROJECT MANAGER: John Koz
CLIENT: FOX ROCK DATE ANALYZED: 7-23-18 PROJECT MONITOR: Keyla Garner
PROJECT NAME: QMC - East wing 1st fl - Boiler House CONTRACTOR: Ogni

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	
03	Hallway 1st floor Load out	D	708	1018	8.5	8.5	8.5	190	1,615.0	7.5/100	0.002	
04	Hallway 1st floor Boiler	D	709	1019	8.5	8.5	8.5	190	1,615.0	7/100	0.002	
05	Boiler House	D	715	1025	8.5	8.5	8.5	190	1,615.0	8.5/100	0.002	
06	Hallway 1st floor Load out	D	1018	108	8.5	8.5	8.5	170	1,445.0	6.5/100	0.002	
07	Hallway 1st floor Boiler	D	1019	109	8.5	8.5	8.5	170	1,445.0	7/100	0.002	
08	Boiler House	D	1025	114	8.5	8.5	8.5	179	1,436.5	11/100	0.003	
08	Duplicate Analysis	D	-	-	-	-	-	-	1,436.5	9.5/100	0.003	KC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

Relinquished by (Lab Use Only): _____ Date: _____

Received by (Lab Use Only): _____ Date: _____

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Time: _____



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-07932

DATE COLLECTED: 7-24-18

PROJECT MANAGER: John Uez

CLIENT: Fox Rock

DATE ANALYZED: 7-24-18

PROJECT MONITOR: Kyle Carner

PROJECT NAME: QMC East wing 1st floor / Boiler House

CONTRACTOR: Omni

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	
03	1st floor Hallway Locat	D	8:30am	11:36am	8.5	8.5	8.5	180	1,530.0	7/100	0.002	
04	Hallway near cldg Decan	D	8:45am	11:39am	8.5	8.5	8.5	174	1,479.0	7.5/100	0.002	
05	boiler house	D	8:55am	11:44am	8.5	8.5	8.5	169	1,436.5	12/100	0.004	
06	1st floor Hallway Locat	D	11:36am	1:25pm	9.7	9.1	9.4	111	1,043.4	5/100	0.002	
07	Hallway near cldg Decan	D	1:35pm	1:28pm	9.7	9.7	9.7	111	1,076.7	6.5/100	0.003	
08	boiler house	D	11:44am	1:36pm	9.7	9.1	9.4	111	1,043.4	6/100	0.002	
09	Duplicate Analysis	D	-	-	-	-	-	-	1,530.0	7/100	0.002	KC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature BK Approved By -

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

Relinquished by (Lab Use Only):

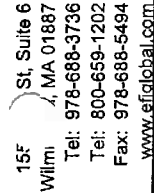
Date:

Time:

Received by (Lab Use Only):

Date:

Time:



PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT MANAGER: John Vaz

PROJECT MONITOR:

CONTRACTOR: Omni

*Sample Type: BG=Background, P=Pre-abatement, D=During, F = Final Clearance

Approved By

Microscope Model: Olympus CH-2 Daily Calibration: ☒ HSE/NPL Slide ☒ Phase Rings Centered? ☒

Date:

Date:



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 7-26-18 PROJECT MANAGER: John Voz
CLIENT: Fox Rock DATE ANALYZED: 7-26-18 PROJECT MONITOR: Kyle Carn
PROJECT NAME: QMC - East Wing 1st Floor / Boiler House CONTRACTOR: Omini

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	
03	1st floor Hallway Ward out	D	708A	1010A	8.5	8.5	8.5	182	1,547.0	7.5/100	0.002	
04	Hallway near C bldg Duct	D	715A	1012A	8.5	8.5	8.5	177	1,504.5	8/100	0.002	
05	Boiler House	D	720A	1018A	8.5	8.5	8.5	178	1,513.0	6.5/100	0.002	
06	1st floor Hallway Ward out	D	1010A	1310A	9.7	9.7	9.7	201	1,949.7	10/100	0.002	
07	Hallway Near C bldg Duct	D	1012A	1330A	9.7	9.7	9.7	201	1,949.7	15/100	0.003	
08	Boiler House	D	1018A	1380A	9.7	9.7	9.7	200	1,940.0	12.5/100	0.003	
09	Duplicate Analysis	D	-	-	-	-	-	-	1,513.0	7/100	0.002	KC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By -

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

Relinquished by (Lab Use Only): _____ Date: _____

Received by (Lab Use Only): _____ Date: _____

Time: _____

Time: _____



Complex Issues - Solid Solutions

2 of 2

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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932 DATE COLLECTED: 7-26-18 PROJECT MANAGER: John Voz
CLIENT: For Rice DATE ANALYZED: 7-26-18 PROJECT MONITOR: Kayla Carner
PROJECT NAME: Qmc - East wing 1st floor 10 x 10 Connector FINAL AIR CONTRACTOR: Omo

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	
03	West side of Containment	F	7:32	9:00	15.2	15.2	15.2	88	1,337.6	2.5/100	<0.001	
04	East side of Containment	F	7:37	9:01	15.2	14.8	15.0	88	1,320.0	3/100	0.001	
05	Center of Containment	F	7:35	9:03	15.2	15.2	15.2	87	1,322.4	3.5/100	0.001	
05	Duplicate Analysis	F	-	-	-	-	-	-	1,322.4	3.5/100	0.001	KC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By -

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring's Centered? ☒

Relinquished by (Lab Use Only): _____ Date: _____

Received by (Lab Use Only): _____ Date: _____

Time: _____

Time: _____

Certificate of Completion

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St, Quincy, MA
Containment: East Wing 1st Floor 10x10 connector
EFI Project No.: 98350-06932

Contractor's Certification of Project Completion

Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.

Signature: *Wilson Soto* Date: 7-26-18
Print Name: Wilson Soto
Print Title: Supervisor
Contractor Name: Omni

EFI Field Technician Certification

The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.

Signature: *Kayla Carnes* Date: 7-26-18
Print Name: Kayla Carnes

CERTIFICATE OF VISUAL INSPECTION

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St., Quincy, MA
Containment: East wing 1st floor 10x10 Connector
Material & Quantity Removed: Floor tile & Black mastic 60SF

Contractor's Certification of Visual Inspection

Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks)

Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.

Signature: Wilson R. Soto Date: 7-26-18

Print Name: WILSON R. SOTO

Print Title: Supervisor

Contractor Name: Omni

EFI Field Technician Certification

The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.

Signature: Kayla Carnes Date: 7-26-18

Print Name: Kayla Carnes

Certificate of Final Air Clearance

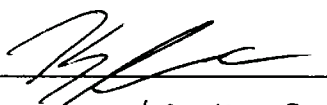
Project Name: Quincy Medical Center
Project Location: 114 Whitwell St., Quincy, MA
Containment: East wing 1st floor 10x10 Connector
EFI Project No.: 98350-06932

EFI Certification of Final Air Clearance

THIS CERTIFICATE IS TO CERTIFY THAT FINAL AIR CLEARANCE HAS BEEN ACHIVED FOR THE ABOVE CONTAINMENT WORK AREA. AN AIR SAMPLE CONCENTRATION OF:

0.001
<LOD Fibers per Cubic Centimeter (f/cc)
Using Phased Contrast Microscopy

N/A Structures per Millimeter Squared (f/cc)
Using Transmission Electron Microscopy

Signature:  Date: 7-26-18
Print Name: Kayla Carnes



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 97350-06922

CLIENT: Boiler

PROJECT NAME: QMC - East wing 1st floor & Boiler House

DATE COLLECTED: 7-27-18

DATE ANALYZED: 7-27-18

PROJECT MANAGER: John Uez

PROJECT MONITOR: Carla Carnes

CONTRACTOR: Omni Environmental

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KL
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	
03	1st Floor Hallway Load out	D	25 10:14 AM	10:19 AM	8.5	8.5	8.5	174	1,479.0	7/100	0-002	
04	Hallway Near c body Decan	D	26 7:26 AM	10:23 AM	8.5	8.5	8.5	177	1,504.5	7.5/100	0-002	
05	Boiler House	D	32 7:32 AM	10:24 AM	8.5	8.5	8.5	177	1,504.5	10/100	0-003	
06	1st Floor Hallway Load out	D	14 10:14 AM	12:45 PM	10.1	10.1	10.1	146	1,474.6	8.5/100	0-002	
07	Hallway Near c body Decan	D	23 10:23 AM	12:46 PM	10.1	10.1	10.1	143	1,444.3	7/100	0-002	
08	Boiler House	D	24 10:24 AM	12:52 PM	10.1	10.1	10.1	143	1,444.3	11/100	0-003	
09												
00	Duplicate Analysis	D	-	-	-	-	-	-	1,474.6	8/100	0-002	KL

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By [Signature]

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring Centered? ☒

Relinquished by (Lab Use Only):

Received by (Lab Use Only):

Date:

Date:

Time:

Time:

Site Name and Address: 114 Whitwell St

 Project No.: 98350-0032

 Client Name: Fox River

 Collected By: Denise Calvino

 Collection Date: 7/30/18

 Microscope No: C/S-250087

 Microscope Cleaned: Y N

 Phase Rings Aligned: Y N

 Analyzed By: Denise Calvino

 Ref. Slide Data: #1 - 7 - Pass

 HSE-NPL Test Slide: 5 - Pass

 Graticule Field Area (mm²): 0.00785

(Number / Fibers per Field / Pass/Fail)

(Number / Pass/Fail)

Sample #	Location or Worker Name / SSN / Task	Sample Type (1-10)	Pump On h:mm	Pump Off h:mm	Time (Mins)	Rotometer Flow Rate (LPM)			Volume (Liters) A * B = [C]	LOQ (2.7 / C)	Actual Count (F/Flds)	Adjusted Count * (F/Flds)	Result * (F/C)	Analyst ID Initials
						On	Off	Ave [B]						
01A	Blank													
02A	Blank													
01	1st Fl East wing (outside) Containment	1	0651	1047	236	8	8	8	1,888	0.001	135/100	135/100	0.004	DC
02	"	1	0651	1047	236	8	8	8	1,888	0.001	16/100	16/100	0.004	DC
03	Outside Boiler Room	1	0657	1056	239	8	8	8	1,912	0.001	16/100	16/100	0.004	DC
04	"	1	0657	1056	239	8	8	8	1,912	0.001	11/100	11/100	0.003	DC
05	1st Fl East wing (outside) Containment	1	1047	1331	164	8	8	8	1,312	0.002	15/100	15/100	0.006	DC
06	"	1	1047	1331	164	8	8	8	1,312	0.002	12/100	12/100	0.004	DC
07	Outside Boiler Room	1	1056	1336	160	8	8	8	1,280	0.002	9/100	9/100	0.003	DC
08	"	1	1056	1336	160	8	8	8	1,280	0.002	10/100	10/100	0.004	DC
02	Duplicate Analysis													
03	QA/QC Calculation													

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.

If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)

For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/fields)*385)/Volume * 7.85. This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background	3) Asbestos Removal	5) Glove Bag Evolutions	6) Personal Air Sample	9) Other Associated Work
	2) Pre-Abatement/Prep	4) Final Cleaning	7) Final Air Clearance	8) Waste Load-Out	10) Blank

Comments:

 Analyst Signature: [Signature] Date: 7/30/18

 Relinquished By: [Signature] Date: 7/30/18

 Received By: [Signature] Date: 7/30/18



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

PROJECT NUMBER: 98350-06932

DATE COLLECTED: 7-31-18

PROJECT MANAGER: John Vaz

CLIENT: Fox Rock

DATE ANALYZED: 7-31-18

PROJECT MONITOR: Kayla Carnes

PROJECT NAME: Quik-Eastwing 1st Floor Hallway & Boiler House

CONTRACTOR: Omni

Sample ID	Sample Location	*Sample Type	Time		Flow rate (liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	EC
02	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	
03	Hallway 1st Floor Local out	D	6:58 ^{PM}	10:00 ^{PM}	8.5	8.5	8.5	212	1,802	10/100	0.002	
04	Hallway 1st Floor Decan	D	6:29 ^{PM}	10:02 ^{PM}	8.5	8.5	8.5	213	1,810.5	8.5/100	0.002	
05	Boiler House	D	6:35 ^{PM}	10:08 ^{PM}	8.5	8.5	8.5	213	1,810.5	9/100	0.002	
06	Hallway 1st Floor Local out	D	10:00 ^{PM}	11:20 ^{PM}	8.5	8.5	8.5	192	1,632	9.5/100	0.002	
07	Hallway 1st Floor Decan	D	10:02 ^{PM}	11:30 ^{PM}	8.5	8.5	8.5	191	1,623.5	7.5/100	0.002	
08	Boiler House	D	10:08 ^{PM}	11:18 ^{PM}	8.5	8.5	8.5	190	1,615.0	11.5/100	0.003	
09	Duplicate Analysis	D	-	-	-	-	-	-	1,615.0	11/100	0.003	EC

*Sample Type; BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm²

Analyst Signature

Approved By

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Rings Centered? ☒

Relinquished by (Lab Use Only):

Date:

Time:

Received by (Lab Use Only):

Date:

Time:



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PHASE CONTRAST MICROSCOPY (PCM) AIR SAMPLE DOCUMENTATION

2 of 2

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PROJECT NUMBER: 98350-06932 DATE COLLECTED: 7-31-18 PROJECT MANAGER: John Vaz
CLIENT: FOX ROCK DATE ANALYZED: 7-31-18 PROJECT MONITOR: Kayla Garner
PROJECT NAME: QINC - East Wing 1st Floor Hallway (LEFT) CONTRACTOR: Omni

Sample ID	Sample Location	*Sample Type	Time		Flow rate (Liters/min.)			Time (min.)	Volume (liters)	Fiber Ct. Fibers/Fields	Result (f/cc)	Analyst Initials
			On	Off	On	Off	Avg.					
01A	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	KC
02A	Blank	-	-	-	-	-	-	-	-	0/100	Not Applicable	
03A	West side Storage Room	F	8:48	10:08	15.6	15.6	15.6	90	1,404	3.5/100	0.001	
04A	Center Containment Elevator	F	8:51	10:22	15.6	15.6	15.6	91	1,419.6	2.5/100	0.001	
05A	East side. Storage	F	8:53	10:25	15.6	15.6	15.6	92	1,435.2	3/100	0.001	
06A	Duplicate Analysis	F	-	-	-	-	-	-	1,419.6	3/100	0.001	KC

*Sample Type: BG=Background, P=Pre-abatement, D=During, F=Final Clearance Analytical Method: NIOSH 7400, Limit of Detection is 7 fibers/mm³

Analyst Signature [Signature] Approved By _____

Microscope Model: Olympus CH-2 Daily Calibration: HSE/NPL Slide ☒ Phase Ring Centered? ☒

Relinquished by (Lab Use Only): _____ Date: _____

Received by (Lab Use Only): _____ Date: _____

Time: _____

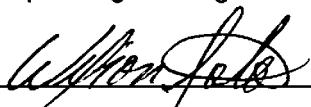
Time: _____

Certificate of Completion

Project Name: Quincy Medical Center
Project Location: 114 Whittell St. Quincy, MA
Containment: East wing 1st Floor Main Hallway Left/South East side
EFI Project No.: 98350-06932

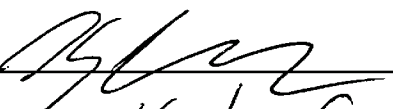
Contractor's Certification of Project Completion

Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.

Signature:  Date: 7-31-18
Print Name: WILSON SOTO
Print Title: J. MGR
Contractor Name: OMNI ENVIRONMENTAL

EFI Field Technician Certification

The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.

Signature:  Date: 7-31-18
Print Name: Kayla Carner

CERTIFICATE OF VISUAL INSPECTION

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St., Quincy, MA
Containment: East wing 1st floor Main Hallway Left / South East side
Material & Quantity Removed: 80 SF Floor tile & black mastic

Contractor's Certification of Visual Inspection

Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks)

Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.

Signature: *Wilson Soto* **Date:** 7-31-18

Print Name: WILSON SOTO

Print Title: P. MGR

Contractor Name: OMNI ENVIRONMENTAL

EFI Field Technician Certification

The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.

Signature: *Kayla Carnes* **Date:** 7-31-18

Print Name: Kayla Carnes

Certificate of Final Air Clearance


Project Name: Quincy Medical Center
Project Location: 114 Whitwell St. Quincy MA
Containment: East wing 1st floor Main Hallway left/south east side
EFI Project No.: 98350-06932

EFI Certification of Final Air Clearance

THIS CERTIFICATE IS TO CERTIFY THAT FINAL AIR CLEARANCE HAS BEEN ACHIVED FOR THE ABOVE CONTAINMENT WORK AREA. AN AIR SAMPLE CONCENTRATION OF:

0.001 Fibers per Cubic Centimeter (f/cc)
Using Phased Contrast Microscopy

N/A Structures per Millimeter Squared (f/cc)
Using Transmission Electron Microscopy

Signature:  Date: 7-31-18
Print Name: Kayla Carnes

Engineering Services

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Client Name: Fox Lodge

Project #: 983506632

Microscope Cleaned: Dec 2017

Client Address: 8-1-18

Microscope Number: 1621

Pass HSE-NPL Test Slide & Date: 7050 8-1-18

Collection Date: 8-1-18

Ref. Slide Data (No. & fib/fld): 12818 - 10/100

Graticule Field Area (mm²): 0.00785

Collected By: Kyla Carney

Phase Rings Aligned: yes

Analyzed By: Kyla Carney

Project Location: QWR - Gateway 1st Floor

Sample #	Location or	Worker Name / SSN / Task	Sample Type	Pump On	Pump Off	Time (Mins)	Rotometer Flow Rate (LPM)	Volume (Liters)	LOQ	Actual Count	Adjusted Count *	Result *	Analyst ID
			(1-10)	hh:mm	hh:mm	[A]	On	Off	Ave [B]	Do Not Write In This Area.			
01	Blank									0/100	Do Not Write	Do Not Write	KE
02	Field Blank									0/100	Do Not Write	Do Not Write	KE
03	Hallway 1st Floor	Lead out	3	6:40	9:50	190	8.5	8.5	8.5	8.5/100	-	0.002	
04	Hallway 1st Floor	Decor	3	6:40	9:51	189	8.5	8.5	8.5	6.5/100	-	0.002	
05	Boiler House		3	6:40	9:58	190	8.5	8.5	8.5	10/100	-	0.003	
06	Hallway 1st Floor	Lead out	3	7:50	10:10	191	8.5	8.5	8.5	7.5/100	-	0.002	
07	Hallway 1st Floor	Decor	3	9:57	10:20	191	8.5	8.5	8.5	7/100	-	0.002	
08	Boiler House		3	9:58	10:20	191	8.5	8.5	8.5	11/100	-	0.003	
09	Duplicate Analysis									8/100			KE
10	QA/QC Calculation											Pass/Fail	KE

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.

If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)

For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background	3) Asbestos Removal	5) Glove Bag Evolutions	6) Personal Air Sample	9) Other Associated Work
	2) Pre-Abatement/Prep	4) Final Cleaning	7) Final Air Clearance	8) Waste Load-Out	10) Blank

Comments: _____

Analyzed By: _____ Date: 8-1-18

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Client Name: Fox Rock

Client Name: Fox Rock

Client Address: Quincy

Collection Date: 8-1-1966

Collected By: Kayla Caines

Project Location: Qinc - East wing 1st fl

Project #: 9835-0532 Lab ID:

Microscope Number: F0211

Ref. Slide Data (No.&fib/fld): 72918 - 11/100

Phase Rings Aligned:

- Main Hallway North East side (Right)

Microscope Cleaned:

Ref. Slide Data (No.&fib/fld): 72918 - 11/100

Phase Rings Aligned:

- Main Hallway North East side (Right)

Pass HSE-NPL Test Slide & Date: 7050 8-1-18

Graticule Field Area (mm²): 0.0785

Analized By: Neel Chen

FENL AIR

[illegible]

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report **Result** as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.

If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)

For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is $\frac{(fib/flds)*385}{(Volume * 7.85)}$. This calculation MUST be adjusted for variables other than mentioned

Work Phase:

1) Area Background

3) Asbestos Removal

5) Glove Bag Evolutions

6) Personal Air Sample

9) Other Associated Works

2) Pre-Abatement/Prep

4) Final Cleaning

7) Final Air Clearance

8) Waste Load-Out

10) Blank

Comments:

Analyzed By:

Date: 8-17-88

Relinquished By:

Date: _____

Received By:

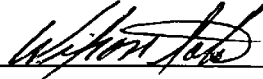
Date:

Certificate of Completion

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St., Quincy, MA
Containment: East wing 1st Floor - Main Hallway Right / North East Side
EFI Project No.: 98350-06932

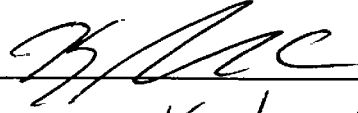
Contractor's Certification of Project Completion

Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.

Signature:  Date: 8-1-18
Print Name: WILSON SOTO
Print Title: O. HGR
Contractor Name: OMNI ENVIRONMENTAL

EFI Field Technician Certification

The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.

Signature:  Date: 8-1-18
Print Name: Kayla Carner

CERTIFICATE OF VISUAL INSPECTION

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St., Quincy, MA
Containment: East Wing 1st Floor - Main Hallway Right / North East side
Material & Quantity Removed: 80 SF Floor tile & Mastic

Contractor's Certification of Visual Inspection

Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks)

Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.

Signature: [Signature] **Date:** 8-1-18

Print Name: WILSON SOTO

Print Title: P.M.C.R.

Contractor Name: OMNI ENVIRONMENTAL

EFI Field Technician Certification

The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.

Signature: [Signature] **Date:** 8-1-18

Print Name: Kayla Carnes

Certificate of Final Air Clearance

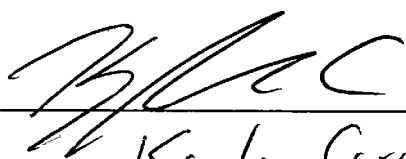
Project Name: Quincy Medical Center
Project Location: 114 Whitwell St., Quincy, MA
Containment: East wing 1st floor - Main Hallway Right / North East Side
EFI Project No.: 98350-06932

EFI Certification of Final Air Clearance

THIS CERTIFICATE IS TO CERTIFY THAT FINAL AIR CLEARANCE HAS BEEN ACHIVED FOR THE ABOVE CONTAINMENT WORK AREA. AN AIR SAMPLE CONCENTRATION OF:

0-001 Fibers per Cubic Centimeter (f/cc)
Using Phased Contrast Microscopy

N/A Structures per Millimeter Squared (f/cc)
Using Transmission Electron Microscopy

Signature:  Date: 8-1-18
Print Name: Kayla Carnes

Client Name: FOX ROCK Project #: 06932 Lab ID: — Microscope Cleaned: Dec 2018
Client Address: Quincy Microscope Number: 1 F 0211 Pass HSE-NPL Test Slide & Date: 7050 8-2-18
Collection Date: 8-2-18 Ref. Slide Data (No. & fib/fld): 7318 - 6/100 Graticule Field Area (mm²): 0.00785
Collected By: Kayla Carner Phase Rings Aligned: yes Analyzed By: Kayla Carner
Project Location: QMC - East wing 1st floor Boiler House - Back grounds

Sample #	Location or Worker Name / SSN / Task	Sample Type	Pump On	Pump Off	Time (Mins)	Rotometer Flow Rate (LPM)	Volume (Liters)	LOQ	Actual Count	Adjusted Count *	Result *	Analyst ID
01	Blank	(1-10)	hh:mm	hh:mm	[A]	On	Ave [B]	(2.7 / C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
02	Field Blank											
03	Hallway 1st floor Load out	4	7:28	10:12	169	8.5	1436.5	0.001	8.5/100	—	0.003	KE
04	Hallway 1st floor Decon	4	7:29	10:18	169	8.5	1436.5	0.001	6/100	—	0.002	KE
05	Boiler House	3	7:36	10:55	169	8.5	1436.5	0.001	10.5/100	—	0.003	—
06	Hallway 1st floor Load out	4	10:17	11:16	174	8.5	1479.0	0.001	7/100	—	0.002	—
07	Hallway 1st floor Decon	4	10:18	11:24	174	8.5	1479.0	0.001	7.5/100	—	0.002	—
08	Boiler House	3	10:25	11:18	173	8.5	1476.5	0.001	9/100	—	0.003	—
09	Duplicate Analysis											
10	QA/QC Calculation								10/100			KE
Abs Value [Sqr Root (first density) - Sqr Root (dup density)] <= 2.77 x (Avg of the sq Root of the two counts) x 225												

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.

If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)

For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase: 1) Area Background 3) Asbestos Removal 5) Glove Bag Evolutions 6) Personal Air Sample 9) Other Associated Work
2) Pre-Abatement/Prep 4) Final Cleaning 7) Final Air Clearance 8) Waste Load-Out 10) Blank

Comments: —

Analyzed By: [Signature] Date: 8-2-18

Relinquished By: — Date: —

Received By: —

Date: —

Client Name: Fox Rock Project #: 06032 Lab ID: — Microscope Cleaned: Dec 2017
Client Address: Quincy Microscope Number: 160211 Pass HSE-NPL Test Slide & Date: 2018 08-18
Collection Date: 8-3-18 Ref. Slide Data (No. & fib/fld): 7348 8/100 Graticule Field Area (mm²): 0.0078
Collected By: Yanika Carter Phase Rings Aligned: yes Analyzed By: Yanika Carter
Project Location: QVC - Cash wing 1st floor & Boiler House

Sample #	Location or Worker Name / SSN / Task	Sample Type (1-10)	Pump On hh:mm	Pump Off hh:mm	Time (Mins)	Rotometer Flow Rate (LPM)	Volume (Liters)	LOQ (2.7 / C)	Actual Count (F/Flds)	Adjusted Count* (F/Flds)	Result* (F/CC)	Analyst ID Initials
01	Blank								0/100	Do Not Write	Do Not Write	ke
02	Field Blank								0/100	Do Not Write	Do Not Write	ke
03	Hallway 1st floor load out	3	733	1022	169	8.5	1436.5	0.001	7/100	—	0.002	
04	Hallway 1st floor Decan	3	734	1023	169	8.5	1436.5	0.001	8.5/100	—	<0.003	
05	Boiler House	3	738	1026	168	8.5	1428.8	0.001	10/100	—	0.003	
06	Hallway 1st floor load out	3	1022	1231	129	8.5	1096.5	0.002	7.5/100	—	0.003	
07	Hallway 1st floor Decan	3	1023	1232	129	8.5	1096.5	0.002	8/100	—	0.003	
08	Boiler House	3	1026	1238	132	8.5	1122	0.002	10.5/100	✓	0.004	
09	Duplicate Analysis								10/100			ke
10	QA/QC Calculation										Pass/Fail	ke

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.
If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)
For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

- Work Phase:
- | | | | | |
|-----------------------|---------------------|-------------------------|------------------------|--------------------------|
| 1) Area Background | 3) Asbestos Removal | 5) Glove Bag Evolutions | 6) Personal Air Sample | 9) Other Associated Work |
| 2) Pre-Abatement/Prep | 4) Final Cleaning | 7) Final Air Clearance | 8) Waste Load-Out | 10) Blank |

Comments: —
Analyzed By: [Signature] Date: 8-3-18
Relinquished By: — Date: —
Received By: — Date: —

Client Name: FOX ROCK

Project #: 13350-0532 Lab ID: — Microscope Cleaned: Dec 2007

Client Address: Quincy, MA

Microscope Number: 1 F0211

Collection Date: 8-6-18

Pass HSE-NPL Test Slide & Date: 7050 8-6-18

Collected By: Kayla Barnes

Ref. Slide Data (No. & fib/fld): 72418, 111100

Graticule Field Area (mm²): 0.00785

Project Location: QMC - East wing 1st floor + Boiler House

Phase Rings Aligned: Yes

Analyzed By: Kayla Barnes

Sample #	Location or Worker Name / SSN / Task	Sample Type (1-10)	Pump On hh:mm	Pump Off hh:mm	Time (Mins)	Rotometer Flow Rate (LPM)	Volume (Liters)	LOQ (2.7 / C)	Actual Count (F/Flds)	Adjusted Count (F/Flds)	Result (F/CC)	Analyst ID Initials
01 A	Blank								0 / 100	Do Not Write	Do Not Write	KL
02 A	Field Blank								0 / 100	Do Not Write	Do Not Write	KL
03	Hallway 1st floor load out	1	723	1010	167	8.5	1419.5	0.002	7.5 / 100	—	0.002	
04	Hallway 1st floor Decan	1	724	1011	167	8.5	1419.5	0.002	8.5 / 100	—	0.003	
05	Boiler House	3	730	1017	167	8.5	1419.5	0.002	10.1 / 100	—	0.003	
06	Hallway 1st floor load out	1	1010	1080	178	8.5	1513	0.001	6 / 100	—	0.002	
07	Hallway 1st floor Decan	1	1011	1090	176	8.5	1513	0.001	7.5 / 100	—	0.002	
08	Boiler House	3	1011	1140	177	8.5	1504.5	0.001	11 / 100	—	0.003	
09	Duplicate Analysis								105 / 100		Pass/Fail	KL
10	QA/QC Calculation											KL

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.

If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)

For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background	3) Asbestos Removal	5) Glove Bag Evolutions	6) Personal Air Sample	9) Other Associated Work
	2) Pre-Abatement/Prep	4) Final Cleaning	7) Final Air Clearance	8) Waste Load-Out	10) Blank

Comments:

Analyzed By: [Signature] Date: 8-6-18

Relinquished By: [Signature] Date: —

Received By: —

Date: —

Client Name: Fox Row Project #: 98350-06932 Lab ID: — Microscope Cleaned: NOV 2017
Client Address: Quincy, MA Microscope Number: 160211 Pass HSE-NPL Test Slide & Date: 2020 8/6/18
Collection Date: 8-6-18 Ref. Slide Data (No. & fib/fld): 328 - 4/100 Graticule Field Area (mm²): 0.00783
Collected By: Kayla Carnes Phase Rings Aligned: yes Analyzed By: Kayla Carnes
Project Location: Quincy - East Building, 1st Floor FINAL AIR CLEARANCE Round 1

Sample #	Location or Worker Name / SSN / Task	Sample Type	Pump On	Pump Off	Time (Mins)	Rotometer Flow Rate (LPM)	Volume (Liters)	LOQ	Actual Count	Adjusted Count *	Result *	Analyst ID
		(1-10)	hh:mm	hh:mm	[A]	On	Ave [B]	(2.7 / C)	(F/Flds)	(F/Flds)	(F/C)	Initials
01B	Blank								0/100	Do Not Write	Do Not Write	KC
02B	Field Blank								0/100	Do Not Write	Do Not Write	
01F	West Side Hallway	7	39 02 10 AM	10 AM	83	15.6	15.4	1,278.2	0.002	3/100	0.001	
02F	North West corner	7	39 02 10 AM	10 AM	83	15.6	15.4	1,278.2	0.002	4.5/100	0.001	
03F	West Side Hallway	7	40 03 08 AM	08 AM	83	15.6	15.4	1,294.8	0.002	1.5/100	0.001	
04F	South West corner	7	41 04 08 AM	08 AM	83	15.6	15.4	1,294.8	0.002	1/100	0.001	
05F	East Side Hallway	7	41 04 08 AM	08 AM	83	15.6	15.4	1,278.2	0.002	2.5/100	0.001	
06F	East Side Hallway	7	42 05 08 AM	08 AM	83	15.6	15.4	1,278.2	0.002	3.5/100	0.001	
06F	North East corner								3/100			KC
Pass	Duplicate Analysis											
	QA/QC Calculation											

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.

If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)

For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background	3) Asbestos Removal	5) Glove Bag Evolutions	6) Personal Air Sample	9) Other Associated Work
	2) Pre-Abatement/Prep	4) Final Cleaning	7) Final Air Clearance	8) Waste Load-Out	10) Blank

Comments: —

Analyzed By: KC Date: 8-6-18

Relinquished By: — Date: —

Received By: — Date: —

Client Name: Fox Rock Project #: 98350-0682 Lab ID: — Microscope Cleaned: NOV 2017
Client Address: Quincy, MA Microscope Number: 1502.1 Pass HSE-NPL Test Slide & Date: 2030 8/6/18
Collection Date: 8-6-18 Ref. Slide Data (No. & fib/field): 678-9100 Graticule Field Area (mm²): 0.0078
Collected By: Wayne Carney Phase Rings Aligned: Yes Analyzed By: Wayne Carney
Project Location: QMC - East Wing 1st floor FINAL AIR CLEARANCE Round 2

Sample #	Location or Worker Name / SSN / Task	Sample Type	Pump On	Pump Off	Time (Mins)	Rotometer Flow Rate (LPM)	Ave [B]	Volume (Liters)	LOQ	Actual Count	Adjusted Count *	Result *	Analyst ID
—	Blank	(1-10)	hh:mm	hh:mm	[A]	On	Off	A * B = [C]	(2.7 / C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
—	Field Blank										Do Not Write	Do Not Write	KC
078	West Side Hallway North West Corner	7	10:02	11:32	90	15.2	15.2	1368	0.002	3/100	—	0.001	
088	West Side Hallway West - Center Hallway	7	10:03	11:33	90	15.2	15.2	1368	0.002	2.5/100	—	0.001	
09F	West Side Hallway South West Corner	7	10:03	11:33	90	15.6	15.6	1404	0.002	1/100	—	0.001	
10F	East Side Hallway South East Corner	7	10:04	11:34	90	15.6	15.6	1404	0.002	3.5/100	—	0.001	
11F	East Side Hallway East - Center Hallway	7	10:04	11:35	91	15.2	15.2	1383.2	0.002	2/100	—	0.001	
12F	East Side Hallway North East Hallway	7	10:05	11:36	91	15.2	15.2	1383.2	0.002	3/100	—	0.001	
12F	Duplicate Analysis									3.5/100			
Pass	QA/QC Calculation												
Abs Value [Sqr Root (first density) - Sqr Root (dup density)] <= 2.77 x (avg of the sq Root of the two counts) Pass/Fail													

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.

If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)

For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/fields)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background	3) Asbestos Removal	5) Glove Bag Evolutions	6) Personal Air Sample	9) Other Associated Work
	2) Pre-Abatement/Prep	4) Final Cleaning	7) Final Air Clearance	8) Waste Load-Out	10) Blank

Comments: —
Analyzed By: KC Date: 8-6-18
Relinquished By: — Date: —
Received By: — Date: —

Client Name: FOX ROW Project #: 98350-06932 Lab ID: — Microscope Cleaned: NOV 2017
Client Address: QUINCY, ILLA Microscope Number: 1 F 02 U Pass HSE-NPL Test Slide & Date: 7050 8618
Collection Date: 8-6-18 Ref. Slide Data (No. & fib/fld): 8618-4/100 Graticule Field Area (mm²): 0.00785
Collected By: Kayla Carnes Phase Rings Aligned: yes Analyzed By: Kayla Carnes
Project Location: QMC - East Wing 1st Floor FINALE AIR CLEARANCE Bands

Sample #	Location or Worker Name / SSN / Task	Sample Type (1-10)	Pump On hh:mm	Pump Off hh:mm	Time (Mins)	Rotometer Flow Rate (LPM)	Volume (Liters)	LOQ (2.7 / C)	Actual Count (F/Flds)	Adjusted Count (F/Flds)	Result *	Analyst ID
—	Blank								—	Do Not Write	Do Not Write	—
—	Field Blank								—	Do Not Write	Do Not Write	—
13F	West side Hallway North West Corner	7	11:32 AM	12:58 PM	86	15.2	1,307.2	0.002	2.5/100	—	<0.001	KC
14F	West Side Hallway West - Center Hallway	7	11:33 AM	12:58 PM	85	15.2	1,292	0.002	3/100	—	0.001	—
15F	West Side Hallway South East Corner	7	11:33 AM	12:59 PM	86	15.4	1,341.6	0.002	2.5/100	—	<0.001	—
16F	East side Hallway South East Corner	7	11:34 AM	10:10 PM	87	15.6	1,357.2	0.002	1.5/100	—	<0.001	—
17F	East side Hallway East - Center Hallway	7	11:35 AM	10:10 PM	86	15.2	1,307.2	0.002	1/100	—	<0.001	—
18F	East side Hallway North East corner	7	11:36 AM	10:09 PM	86	15.2	1,307.2	0.002	2/100	—	<0.001	—
18F	Duplicate Analysis								21/100			KC
	QA/QC Calculation										Pass/Fail	KC

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.

If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)

For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background	3) Asbestos Removal	5) Glove Bag Evolutions	6) Personal Air Sample	9) Other Associated Work
	2) Pre-Abatement/Prep	4) Final Cleaning	7) Final Air Clearance	8) Waste Load-Out	10) Blank

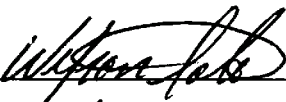
Comments: —
Analyzed By: KC Date: 8-6-18
Relinquished By: — Date: —
Received By: — Date: —

Certificate of Completion

Project Name: Quincy Medical Center
Project Location: 114 Whitwell Street, Quincy, MA
Containment: East Wing 1st Floor
EFI Project No.: 98350-06932


Contractor's Certification of Project Completion

Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.

Signature:  Date: 8-6-18
Print Name: WILSON SOTO
Print Title: Supervisor
Contractor Name: Omni Environmental

EFI Field Technician Certification

The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.

Signature:  Date: 8-6-18
Print Name: Kayla Carney

CERTIFICATE OF VISUAL INSPECTION

Project Name: Quincy Medical Center
Project Location: 114 Whitwell Street, Quincy, MA
Containment: East wing 1st floor
Material & Quantity Removed: 11,100 SF floor tile + Black mastic

Contractor's Certification of Visual Inspection

Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks)

Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.

Signature:  Date: 8-6-18

Print Name: WILSON SOTO

Print Title: Supervisor

Contractor Name: Omni Environmental

EFI Field Technician Certification

The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.

Signature:  Date: 8-6-18

Print Name: Kyla Carnes

Certificate of Final Air Clearance


Project Name: Quincy Medical Center
Project Location: 114 Whitwell Street, Quincy, MA
Containment: East wing 1st floor
EFI Project No.: 98350-06932

EFI Certification of Final Air Clearance

THIS CERTIFICATE IS TO CERTIFY THAT FINAL AIR CLEARANCE HAS BEEN ACHIVED FOR THE ABOVE CONTAINMENT WORK AREA. AN AIR SAMPLE CONCENTRATION OF:

0.001
< LOD Fibers per Cubic Centimeter (f/cc)
Using Phased Contrast Microscopy

N/A Structures per Millimeter Squared (f/cc)
Using Transmission Electron Microscopy

Signature:  Date: 8-6-18
Print Name: Kayla Carner

ENVIRONMENTAL SERVICES
Client Name: Fox Rock

Client Address: Quincy, MA

Collection Date: 8-7-19

Collected By: 8-7-18

Project Location: Que - 1st wing 1st floor + B.1er Haze

Project #: 98358-0652 Lab ID:

Microscope Number: F0211

Ref. Slide Data (No.&fib/fld): 7241 9/100

Phase Rings Aligned:

Microscope Cleaned: Dec 2017

Pass HSE-NPL Test Slide8

Graticule Field Area (mm²): 0.00785

Analyzed By: Kayla Carnes

Sample #	Location or	Sample Type	Pump On	Pump Off	Time (Mins)	Rotometer Flow Rate (LPM)			Volume (Liters) $A \times B = C$	LOQ	Actual Count (F/Flds)	Adjusted Count *	Result *	Analyst ID
	Worker Name / SSN / Task	(1-10)	hh:mm	hh:mm	[A]	On	Off	Ave [B]		(2.7 / C)	(F/Flds)	(F/Flds)	(F/Cc)	Initials
01	Blank	Do Not Write In This Area									0/100	Do Not Write	Do Not Write	KC
02	Field Blank										0/100			KC
03	East wing 1st fl.		724A	101A	167	8.5	8.5	8.5	49.5	L0.002	8.5/100	-	O.OO3	/
04	Bowler House		735A	102A	167	8.5	8.5	8.5	49.5	L0.002	7.5/100	-	O.OO2	/
05	East wing 1st fl.		1011A	109A	178	8.5	8.5	8.5	1513	O.OOI	7.5/100	-	O.OO2	/
06	Bowler House		1018A	115P	177	8.5	8.5	8.5	1504.5	O.OOI	10/100	-	O.OO3	/
06	Duplicate Analysis										10/100			KC
	QA/QC Calculation													Pass/Fail KC

If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report **Result** as **< LOQ**. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.

of original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)

For a 5 or 7 micron filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is $((\text{fib}/\text{flds}) * 385) / (\text{Volume} * 7.85)$. This calculation MUST be adjusted for variables other than mentioned

Work Phase:

1) Area Background
2) Pre-Abatement/Prep

3) Asbestos Removal
4) Final Cleaning

5) Glove Bag Evolutions
7) Final Air Clearance

6) Personal Air Sample
8) Waste Load-Out

9) Other Associated Work
10) Blank

Comments:

Analyzed By:

Date: 8.7.18

Relinquished B

Date: -

Received By: _____

Date: /



EFI Global, Inc.

ASBESTOS AIR SAMPLING LOG (Version 3.9 Revised 6/06/13)
PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Page 1 of 1

Site Name and Address: Quincy Medical Center, 114 Whitwell St. Quincy, MA

Project No.: 98350-06932

Client Name: Fox Rock

Collected By: Kavita Carnes

Collection Date: 8-8-18

Microscope No: 160211

Microscope Cleaned: ☒ N Phase Rings Aligned: ☒ N Analyzed By: Kavita Carnes

Ref. Slide Data: 8218 6/100 Pass
(Number / fibers per field / Pass/Fail)

HSE-NPL Test Slide: 7050 Pass
(Number / Pass/Fail)

Graticule Field Area (mm²): 0.00785

Sample #	Location or Worker Name / SSN / Task	Sample Type (1-10)	Pump On hh:mm	Pump Off hh:mm	Time (Mins)	Rotometer Flow Rate (LPM)		Ave [B]	Volume (Liters) A * B = [C]	LOQ (2.7 / C)	Actual Count (F/Flds)	Adjusted Count *	Result *	Analyst ID
01	Blank					On	Off							
02	Blank					On	Off							
03	East wing 1st fl	1	734	1021	167	8.5	8.5	8.5	119.5	0.002	7.5/100	—	0.002	
04	Boiler House	1	745	1032	167	8.5	8.5	8.5	119.5	0.002	8.5/100		0.003	
05	East wing 1st fl	1	1021	1190	178	8.5	8.5	8.5	1513	0.001	7.5/100		0.002	
06	Boiler House	1	1032	1250	177	8.5	8.5	8.5	1545	0.001	8/100		0.003	
07														
08														
09														
10														
11														
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100														

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/fields)*395)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background	3) Asbestos Removal	5) Glove Bag Evolutions	6) Personal Air Sample	9) Other Associated Work
	2) Pre-Abatement/Prep	4) Final Cleaning	7) Final Air Clearance	8) Waste Load-Out	10) Blank

Comments:

Analyst Signature: [Signature]

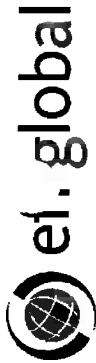
Date: 8-8-18

Relinquished By: [Signature]

Date:

Received By:

Date:



EFI Global, Inc.

ASBESTOS AIR SAMPLING LOG

(Version 3.9 Revised 6/06/13)

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Page 1 of 1

Site Name and Address: Quincy Medical Center, 114 Whitwell St. Quincy, MA

Project No.: 98350-06932

Client Name: Fox Rock

Collected By: Kayla Carnes

Collection Date: 8-9-18

Microscope No: 16211

Microscope Cleaned: D/N

Analyzed By: Kayla Carnes

Ref. Slide Data: 8218 1/100 Pass

HSE-NPL Test Slide: 2050 Pass

Graticule Field Area (mm²): 0.00785

(Number / fibers per field / Pass/Fail)

(Number / Pass/Fail)

Sample #	Location or Worker Name / SSN / Task	Sample Type (1-10)	Pump On hh:mm	Pump Off hh:mm	Time (Mins)	Rotometer Flow Rate (LPM)	Ave [B]	Volume (Liters) A * B = [C]	LOQ (2.7 / C)	Actual Count (F/Flds)	Adjusted Count * (F/Flds)	Result * (F/CC)	Analyst ID Initials
01	Blank												LC
02	Blank												LC
03	East wing 1st Fl	1	7444	10314	167	8.5	8.5	1419.5	0.002	7/100	-	0.002	LC
04	Boiler House	1	7554	10424	167	8.5	8.5	1419.5	0.002	8/100	-	0.003	LC
05	East wing 1st Fl	1	10344	1254	178	8.5	8.5	1513	0.001	7/100	-	0.002	LC
06	Boiler House	1	10424	1354	177	8.5	8.5	1504.5	0.001	7.5/100	-	0.002	LC
07	Duplicate Analysis												
	QA/QC Calculation									7.5/100			LC

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/fields)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background	3) Asbestos Removal	5) Glove Bag Evolutions	6) Personal Air Sample	9) Other Associated Work
	2) Pre-Abatement/Prep	4) Final Cleaning	7) Final Air Clearance	8) Waste Load-Out	10) Blank

Comments:

Analyst Signature: [Signature] Date: 8-9-18

Relinquished By: [Signature] Date: [Signature]

Received By: [Signature] Date: [Signature]



EFI Global, Inc.

ASBESTOS AIR SAMPLING LOG

(Version 3.9 Revised 6/06/13)

Pa. 11 of 2

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA - East wing 1st & 2nd fl + 3rd fl Project No.: 98350-06932

Client Name: Fox Rock

Collected By: Kayla Carnes

Collection Date: 8-10-18

Microscope No: 1 F0211

Microscope Cleaned: ☒ N Phase Rings Aligned: ☒ N Analyzed By: Kayla Carnes

Ref. Slide Data: 8718-3.5 / 100 Pass
(Number / fibers per field / Pass/Fail)

HSE-NPL Test Slide: 7050 Pass
(Number / Pass/Fail)

Graticule Field Area (mm²): 0.00735

Sample #	Location or Worker Name / SSN / Task	Sample Type (1-10)	Pump On hh:mm	Pump Off hh:mm	Time (Mins)	Rotometer Flow Rate (LPM)	Ave [B]	Volume (Liters) A * B = [C]	LOQ (2.7 / C)	Actual Count (F/Flds)	Adjusted Count * (F/Flds)	Result * (F/CC)	Analyst ID Initials
01	Blank									0/100	0/100	Pass	KC
02	Blank									0/100	0/100	Pass	KC
03	Hallway 1st floor East wing	1	7:17 AM	10:15 PM	181	8.5	8.5	1538.5	0.001	11/100	-	0.003	
04	Hallway 2nd floor East wing	5	7:19 AM	10:20 PM	181	8.5	8.5	1538.5	0.001	9/100	-	0.002	
05	Boiler House	3	7:25 AM	10:27 PM	182	8.5	8.5	1547	0.001	10/100	-	0.003	
06	Hallway 1st floor East wing	1	10:15 AM	12:33 PM	125	9.7	9.4	1175	0.002	10.5/100	-	0.004	
07	Hallway 2nd floor East wing	5	10:20 AM	12:36 PM	126	9.7	9.4	1184.4	0.002	8.5/100	-	0.003	
08	Boiler House	3	10:27 AM	12:38 PM	125	9.7	9.7	1212.5	0.002	10/100	-	0.004	
09	Duplicate Analysis												
Pass	QA/QC Calculation									10/100		Pass/Fail	KC
Abs Value [Sqr Root (first density) - Sqr Root (dup density)] <= 2.77 x (Avg of the sq Root of the two counts) x.225													

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/fields)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background	3) Asbestos Removal	5) Glove Bag Evolutions	6) Personal Air Sample	9) Other Associated Work
	2) Pre-Abatement/Prep	4) Final Cleaning	7) Final Air Clearance	8) Waste Load-Out	10) Blank

Comments:

Analyst Signature:

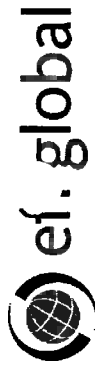
Date: 8-10-18

Relinquished By:

Date:

Received By:

Date:

EFI Global, Inc. **ASBESTOS AIR SA.****LOG LOG** (Version 3.9 Revised 6/06/13)

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Pa.

2 of 2

Site Name and Address: Quincy Medical Center, 114 Whitwell St. Quincy, MA - 2nd Floor TSI pipe work Project No.: 98350-06932 - **FINAL AERC.**

Client Name: Fox Rock

Collected By: Kayla Carnes

Collection Date: 8-10-18

Microscope No: 1F6211

Microscope Cleaned: Y/N Phase Rings Aligned: Y/N Analyzed By: Kayla Carnes

Ref. Slide Data: 8718-351100 Pass

HSE-NPL Test Slide: 1050 Pass

Graticule Field Area (mm²): 0.00185

(Number / fibers per field / Pass/Fail)

(Number / Pass/Fail)

Sample #	Location or Worker Name / SSN / Task	Sample Type	Pump On	Pump Off	Time (Mins)	Rotometer Flow Rate (LPM)			Volume (Liters)	LOQ	Actual Count	Adjusted Count *	Result *	Analyst ID
			hh:mm	hh:mm	[A]	On	Off	Ave [B]			(F/Flds)	(F/Flds)	(F/CC)	
01 A	Blank	(1-10)									0/100	0/100	0.000	ke
02 A	Blank										0/100	0/100	0.000	ke
03 A	North side	7	10:07pm	11:26pm	79	15.6	15.6	15.6	1,232.4	0.002	2.5/100	-	0.000	
04 A	center under chuse	7	10:08pm	11:27pm	80	15.6	15.6	15.6	248.0	0.002	3/100	-	0.000	
05 A	South side	7	10:10pm	11:31pm	81	15.6	15.6	15.6	263.6	0.002	1.5/100	-	0.000	
05A	Duplicate Analysis										2/100			ke
Pass	QA/QC Calculation													ke

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:

- 1) Area Background
- 2) Pre-Abatement/Prep
- 3) Asbestos Removal
- 4) Final Cleaning

- 5) Glove Bag Evolutions
- 6) Personal Air Sample
- 7) Final Air Clearance
- 8) Waste Load-Out

- 9) Other Associated Work
- 10) Blank

Comments:

Analyst Signature:

Date: 8-10-18

Relinquished By:

Date: 8-10-18

Received By:

Date:

Certificate of Completion

Project Name: QMC - East wing 2nd floor
Project Location: Mini Containment - (30LF Pipe insulation)
Containment: "Right-side Center - Large TSI pipes & Elbows"
EFI Project No.: 98356-06932

Contractor's Certification of Project Completion

Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.

Signature: [Signature] Date: 8-10-18
Print Name: Doug McKenna
Print Title: Supervisor
Contractor Name: Omni

EFI Field Technician Certification

The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.

Signature: [Signature] Date: 8-10-18
Print Name: Kayla Carner

CERTIFICATE OF VISUAL INSPECTION

Project Name: QMC - East Wing 2nd floor
Project Location: East Wing 2nd floor Pipe insulation + Stick Pins
Containment: 2nd floor "Right-side center - Large TSI pipes" + Elbows
of floor
Material & Quantity Removed: 30 LF Pipe insulation + 10 SF Acn
Stick Pins

Contractor's Certification of Visual Inspection

Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks)

Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.

Signature: [Signature] Date: 8-10-18

Print Name: Dave McLean

Print Title: Supervisor

Contractor Name: Omai

EFI Field Technician Certification

The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.

Signature: [Signature] Date: 8-10-18

Print Name: Kayla Carney

Certificate of Final Air Clearance

Project Name: QMC-East Wing 2nd Floor
Project Location: East Wing 2nd Floor ACM Pipe Insulation
Containment: 2nd Floor "Right^{side} Center Large TSI pipes"
EFI Project No.: 98350-06932

EFI Certification of Final Air Clearance

THIS CERTIFICATE IS TO CERTIFY THAT FINAL AIR CLEARANCE HAS BEEN ACHIVED FOR THE ABOVE CONTAINMENT WORK AREA. AN AIR SAMPLE CONCENTRATION OF:

0.001
LOD

Fibers per Cubic Centimeter (f/cc)
Using Phased Contrast Microscopy

N/A

Structures per Millimeter Squared (f/cc)
Using Transmission Electron Microscopy

Signature: [Signature] Date: 8-10-18
Print Name: Kayla Carnes



EFI Global, Inc.

ASBESTOS AIR SAMPLING LOG

(Version 3.9 Revised 6/06/13)

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Page 1 of 1

Site Name and Address: Quincy Medical Center, 114 Whitwell St. Quincy, MA

Project No.: 98350-06932

Client Name: Fox Rock

Collected By: Kayla Carnes

Collection Date: 8-13-18

Microscope No: 1 F0211

Microscope Cleaned: Y/N Phase Rings Aligned: Y/N Analyzed By: Kayla Carnes

Ref. Slide Data: 8718-4.5/100 Pass
(Number / fibers per field / Pass/Fail)

HSE-NPL Test Slide: 7050 Pass
(Number / Pass/Fail)

Graticule Field Area (mm²): 0.00185

Sample #	Location or Worker Name / SSN / Task	Sample Type	Pump On	Pump Off	Time (Mins)	Rotometer Flow Rate (LPM)	Ave [B]	Volume (Liters)	LOQ	Actual Count	Adjusted Count *	Result *	Analyst ID
01	Blank	(1-10)	hh:mm	hh:mm	[A]	On	Ave [B]	A * B = [C]	(2.7 / C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
02	Blank												
03	Hallway 1st floor "Intersection"	1	7:07 pm	10:13 pm	186	8.5	8.5	1581	0.001	8/100	—	0.002	kc
04	Hallway 1st floor "Between EW & E building"	1	7:08 pm	10:14 pm	186	8.5	8.5	1581	0.001	6.5/100	—	0.002	kc
05	Boiler House	1	7:15 pm	10:21 pm	186	8.5	8.5	1581	0.001	8.5/100	—	0.002	kc
06	Hallway 1st floor "Intersection"	1	6:13 pm	10:11 pm	168	8.5	8.5	1428	0.001	7.5/100	—	0.002	kc
07	Hallway 1st floor "Between EW & C building"	1	10:14 pm	10:22 pm	168	8.5	8.5	1428	0.001	5.5/100	—	0.001	kc
08	Boiler House	1	10:21 pm	10:28 pm	167	8.5	8.5	1417.5	0.001	9.5/100	—	0.003	kc
09	Duplicate Analysis												
0955	QA/QC Calculation									9/100		Pass/Fail	kc

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/fields)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background	3) Asbestos Removal	5) Glove Bag Evolutions	6) Personal Air Sample	9) Other Associated Work
	2) Pre-Abatement/Prep	4) Final Cleaning	7) Final Air Clearance	8) Waste Load-Out	10) Blank

Comments: _____

Analyst Signature: [Signature] Date: 8-13-18

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Client Name: Fox Rock
Client Address: Quincy
Collection Date: 8-14-18
Collected By: Kayla Carnes
Project Location: 2nd - East Wing 1st Floor + Boiler House

Project #: 06932 Lab ID: - Microscope Cleaned: Dec 2017
Microscope Number: 150211
Ref. Slide Data (No. & fib/fld): 731-18 7/100
Phase Rings Aligned: yes

Pass HSE-NPL Test Slide & Date: 7030 8/4/18
Graticule Field Area (mm²): 0.00785
Analyzed By: Kayla Carnes

Sample #	Location or Worker Name / SSN / Task	Sample Type (1-10)	Pump On hh:mm	Pump Off hh:mm	Time (Mins)	Rotometer Flow Rate (LPM)	Volume (Liters)	LOQ	Actual Count (F/Flds)	Adjusted Count* (F/Flds)	Result* (F/CC)	Analyst ID Initials
01	Blank								01000	Do Not Write	Do Not Write	KE
02	Field Blank								01000	Do Not Write	Do Not Write	KE
03	Hallway 1st Floor Kitchen Entry	3	730	1017	167	8.5	8.5	149.5	7.5/100	-	0.002	
04	Hallway 1st Floor Coldg. Hallway	3	732	1018	164	8.5	8.5	141	6.5/100	-	0.002	
05	Boiler House	3	74	1020	164	8.5	8.5	141	9.5/100	-	0.003	
06	Hallway 1st Floor Kitchen Entry	3	1017	117	180	8.5	8.5	1530	8/100	-	0.002	
07	Hallway 1st Floor Coldg. Hallway	3	1018	119	181	8.5	8.5	1538.5	7.5/100	-	0.002	
08	Boiler House	3	1020	120	179	8.5	8.5	1521.5	10.5/100	-	0.003	
09	Duplicate Analysis								101000			
10	QA/QC Calculation								101000			
Abs Value [Sqr Root (first density) - Sqr Root (dup density)] <= 2.77 x (Avg of the sq Root of the two counts)												
Pass/Fail												

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise.
If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area)
For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

- Work Phase:
- | | | | | |
|-----------------------|---------------------|-------------------------|------------------------|--------------------------|
| 1) Area Background | 3) Asbestos Removal | 5) Glove Bag Evolutions | 6) Personal Air Sample | 9) Other Associated Work |
| 2) Pre-Abatement/Prep | 4) Final Cleaning | 7) Final Air Clearance | 8) Waste Load-Out | 10) Blank |

Comments:
Analyzed By: [Signature] Date: 8-14-18
Relinquished By: [Signature] Date: [Signature] Received By: [Signature] Date: [Signature]



EFI Global, Inc. ASBESTOS AIR SAMPLING LOG (Version 3.9 Revised 6/06/13)

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA - East Wing, Hallway R400 Project No.: 98350-06932

Client Name: Fox Rock

Collected By: Kayla Carnes

Collection Date: 8-15-16

Microscope No: 1F 0211

Microscope Cleaned: Y/N Phase Rings Aligned: Y/N Analyzed By: Kayla Carnes

Ref. Slide Data: $\frac{725 \text{ (g)}}{7100} \frac{0.55}{(\text{Number} / \text{fibers per field} / \text{Pass/Fail})}$

HSE-NPL Test Slide: $\frac{7650}{0.55} \frac{0.55}{(\text{Number} / \text{Pass/Fail})}$

Graticule Field Area (mm²): 6.0075

[illegible]

*if **Adjusted Count** is less than or equal to 5 Fibers/100 Fields, then report **Result** as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/fields)*(385)/(Volume * 7.85)). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background 2) Pre-Abatement/Prep	3) Asbestos Removal 4) Final Cleaning	5) Glove Bag Evolutions 7) Final Air Clearance	6) Personal Air Sample 8) Waste Load-Out	9) Other Associated Work 10) Blank
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Comments:

Analyst Signature: [Signature] Date: 8-5-18

Relinquished By: _____ Date: 8-15-19

Received By: _____ Date: _____

Date:



EFI Global, Inc.

ASBESTOS AIR SAMPLING LOG (Version 3.9 Revised 6/06/13)
PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Page 2 of 2

Site Name and Address: Quincy Medical Center, 114 Whitwell St. Quincy, MA - East wing 1st floor F&H Project No: 98350-06932

Client Name: Fox Rock Collected By: Kayia Carnes Collection Date: 8-15-18

Microscope No: 1 F0211 Microscope Cleaned: Y/N Phase Rings Aligned: Y/N Analyzed By: Kayia Carnes

Ref. Slide Data: 72518 7/100 Pass HSE-NPL Test Slide: 7050 Pass Graticule Field Area (mm²): 0.00785
(Number / fibers per field / Pass/Fail)

Sample #	Location or Worker Name / SSN / Task	Sample Type (1-10)	Pump On hh:mm	Pump Off hh:mm	Time (Mins)	Rotometer Flow Rate (LPM)		Volume (Liters)	LOQ (2.7 / C)	Actual Count (F/Flds)	Adjusted Count * (F/Flds)	Result * (F/CC)	Analyst ID Initials
						On	Off						
01	Blank												kc
02	Blank												kc
03	Hallway 1st Fl Kitchen Entry	3	6:58A	10:10A	192	8.5	8.5	632	0.001	6.5/100	—	0.002	
04	Hallway 1st Fl + C. Bldg Hallway	3	6:59A	10:11A	192	8.5	8.5	632	0.001	8.5/100	—	0.002	
05	Boiler House	3	7:00A	10:17A	191	8.5	8.5	633	0.001	10/100	—	0.003	
06	Hallway 1st Fl Kitchen Entry	3	10:10A	10:8pm	178	8.5	8.5	1513	0.001	7/100	—	0.002	
07	Hallway 1st Fl C. Bldg Hallway	3	10:11A	10:8pm	177	8.5	8.5	1504	0.001	9.5/100	—	0.003	
08	Boiler House	3	10:17A	15pm	178	8.5	8.5	1513	0.001	9.5/100	—	0.003	
09	Duplicate Analysis												kc
10	QA/QC Calculation									7/100		Pass/Fail	kc

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/fields)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background	3) Asbestos Removal	5) Glove Bag Evolutions	6) Personal Air Sample	9) Other Associated Work
	2) Pre-Abatement/Prep	4) Final Cleaning	7) Final Air Clearance	8) Waste Load-Out	10) Blank

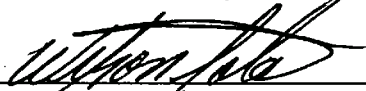
Comments: _____
Analyst Signature: _____ Date: 8-15-18
Relinquished By: _____ Date: _____
Received By: _____ Date: _____

Certificate of Completion

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St., Quincy, MA
Containment: East Wing 1st Floor - Hallway Connector Ramp
EFI Project No.: 98350-06932


Contractor's Certification of Project Completion

Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.

Signature:  Date: 8-15-18
Print Name: WILSON SOTO
Print Title: Supervisor
Contractor Name: Omni Environmental

EFI Field Technician Certification

The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.

Signature:  Date: 8-15-18
Print Name: Kayla Cernes

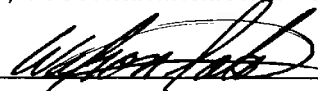
CERTIFICATE OF VISUAL INSPECTION

Project Name: Quincy Medical Center
Project Location: 114 Whitwell St., Quincy, MA
Containment: East wing 1st floor - Hallway Connector Ramp
Material & Quantity Removed: _____

Contractor's Certification of Visual Inspection


Inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks)

Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.

Signature:  Date: 8-15-18
Print Name: WILSON SOTO
Print Title: Supervisor
Contractor Name: Omni Environmental

EFI Field Technician Certification

The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.

Signature:  Date: 8-15-18
Print Name: Kayla Carnes

Certificate of Final Air Clearance


Project Name: Quincy Medical Center
Project Location: 114 Whitwell St., Quincy, MA
Containment: East Wing 1st floor - Hallway Connector Ramp
EFI Project No.: 98350-06932

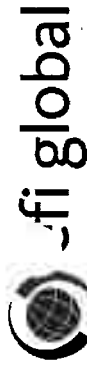
EFI Certification of Final Air Clearance

THIS CERTIFICATE IS TO CERTIFY THAT FINAL AIR CLEARANCE HAS BEEN ACHIVED FOR THE ABOVE CONTAINMENT WORK AREA. AN AIR SAMPLE CONCENTRATION OF:

0.001
< LOD Fibers per Cubic Centimeter (f/cc)
Using Phased Contrast Microscopy

N/A Structures per Millimeter Squared (f/cc)
Using Transmission Electron Microscopy

Signature:  Date: 8-15-78
Print Name: Kayla Curves



EFI Global

EFI Global, Inc. ASBESTOS AIR

AMPLING LOG (Version 3.9 Revised 6/06/13)

Page 1 of 1

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Site Name and Address:

Quincy Medical Center

Client Name:

Fox Rock

Collected By:

David Johnson

Collection Date:

8/20/18

Microscope No:

01

Microscope Cleaned:

Y/N

Analyzed By:

David Johnson

Ref. Slide Data:

1 - 15/100

HSE-NPL Test Slide:

01 Pass

Graticule Field Area (mm²):

0.00785

(Number / fibers per field / Pass/Fail)

(Number / Pass/Fail)

Sample #	Location or Worker Name / SSN / Task	Sample Type (1-10)	Pump On hh:mm	Pump Off hh:mm	Time (Mins)	Rotometer Flow Rate (LPM)			Volume (Liters) A * B =	LOQ (2.7 / C)	Actual Count (F/Flds)	Adjusted Count *	Result *	Analyst ID
					[A]	On	Off	Ave [B]					(F/CC)	Initials
01	Blank													
02	Blank													
01	outside Boiler Plant	8	0647	1032	225	8	8	8	1800	0.0015	7	7	0.002	
02	Window removal Area	2	1000	1244	164	10	10	10	1640	0.002	14	14	0.004	
03	Window removal Area	2	1000	1244	164	10	10	10	1640	0.002	20	20	0.006	
04	outside Boiler Plant	8	1032	1233	126	10	10	10	1260	0.002	10	10	0.004	
04	Duplicate Analysis													
	QA/QC Calculation										8		Pass/Fail	

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/fields)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background	3) Asbestos Removal	5) Glove Bag Evolutions	6) Personal Air Sample	9) Other Associated Work
	2) Pre-Abatement/Prep	4) Final Cleaning	7) Final Air Clearance	8) Waste Load-Out	10) Blank

Comments:

Analyst Signature:

Date:

Relinquished By:

Received By:

Date:

EFI Global, Inc. **ASBESTOS AIR SAMPLING LOG** (Version 3.9 Revised 6/06/13)

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Page 1 of 1

Site Name and Address: Quincy Medical Center, 114 Whitwell St. Quincy, MA

Client Name: Fox Rock

Collected By: David JohnsonProject No. 999550-06992Collection Date: 8/21/18Microscope No: 01Phase Rings Cleaned: Y/NAnalyzed By: Kevin Ganes

David Johnson

Ref. Slide Data: 177-2 Pass
(Number / fibers per field / Pass/Fail)HSE-NPL Test Slide: 01

(Number / Pass/Fail)

Graticule Field Area (mm²): 0.00785

Sample #	Location or Worker Name / SSN / Task	Sample Type (1-10)	Pump On hh:mm	Pump Off hh:mm	Time (Mins)	Rotometer Flow Rate (LPM)			Volume (Liters)	LOQ (2.7 / C)	Actual Count (F/Flds)	Adjusted Count * (F/Flds)	Result * (F/OC)	Analyst ID Initials
						On	Off	Ave [B]						
01	Blank													
02	Blank													
01	Outside Boiler Plant	3	0644	0935	171	10-	10-	10-	1710	0.002	0.002	0.003	0.003	
02	Window Removal Area	3	0722	0955	153	10-	10-	10-	1530	0.002	14-14	0.004	0.004	
03	Window Removal Area	3	0729	0955	146	10-	10-	10-	1460	0.002	11	0.004	0.004	
04	Outside Boiler Plant	3	0935	1205	150	10-	10-	10-	1500	0.002	21	0.007	0.007	
05	Window Removal (Inside)	3	1005	1209	124	10-	10-	10-	1240	0.002	17	0.007	0.007	
06	Window Removal (Inside)	3	1005	1209	124	10-	10-	10-	1240	0.002	15	0.006	0.006	
06	Duplicate Analysis													
06	QA/QC Calculation										17		Pass/Fail	

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/fields)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background	3) Asbestos Removal	5) Glove Bag Evolutions	6) Personal Air Sample	9) Other Associated Work
	2) Pre-Abatement/Prep	4) Final Cleaning	7) Final Air Clearance	8) Waste Load-Out	10) Blank

Comments:

Analyst Signature: David JohnsonDate: 8/21/18Relinquished By: David JohnsonReceived By: David JohnsonDate: 8/21/18



Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA

Client Name: Fox Rock

Collected By: ~~Kayla Barnes~~ Mike Jackson

Collection Date:

Microscope No: 2241842,

Microscope Cleaned: Y/N

Phase Rings Aligned: Y

Analyzed By: Ka

Ref. Slide Data:

HSE-NPL Test Slide:

Graticule Field A

(Number / fibers per field / ~~Pass/Fail~~)

(Number / Pass/Fail)

[illegible]

After Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report **Result** as **< LOQ**. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/(graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/fields)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:

1) Area Background

3) Asbestos Removal

5) Glove Bag Evolutions

6) Personal Air Sample

9) Other Associated Work

Comments:

Analyst Signature: 

Date: 8/22/02

Relinquished By:

Date: _____

Received By: _____ Date: _____



CERTIFICATE OF VISUAL INSPECTION

Site Name: Quincy Medical Center

Project Number: 020.00026
~~99350-06992~~

Site Address: 114 Whitwell St, Quincy, MA

Work Area: 1st Floor window area - east wing

Material & Quantity Removed: Window Cough and Windows
4000 ft²

Contractor's Certification of Visual Inspection

Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.

Signature: [Signature] Date: 8/23/18

Print Name: WILSON SOTO

Print Title: PMGR

Contractor Name: Omni Environmental

EFI Field Technician Certification

The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.

Signature: [Signature] Date: 8/23/18

Print Name: Nikolas Necture
~~Kayla L. Jones~~



CERTIFICATE OF FINAL AIR CLEARANCE

Site Name: Quincy Medical Center

Project Number: 020.00026
~~00350-06032~~

Site Address: 114 Whitwell St, Quincy, MA

Work Area: 1st floor window area - last wing

Material & Quantity Removed: Window Cavity and windows
4000 ft²

EFI Certification of Final Air Clearance

This certificate is to certify that final air clearance has been achieved for the above containment work area. An air sample concentration of:

1.005

Fibers per Cubic Centimeter (f/cc)
Using Phased Contrast Microscopy

Structures per Millimeter Squared (f/cc)
Using Transmission Electron Microscopy

Signature: [Signature]

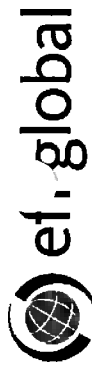
Date: 8/23/18

Print Name: Kathy Jones

Nicholas McLean

EFI Global, Inc.

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EFI Global, Inc. ASBESTOS AIR SAMPLING LOG (Version 3.9 Revised 6/06/13)

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Pa. of

1 of 1

Site Name and Address: Quincy Medical Center, 114 Whitwell St. Quincy, MA

Project No. 020-00020
08350-66992

Client Name: Fox Rock

Collected By: Kayla Carnes

Collection Date: 8-27-18

Microscope No: 1F0211

Microscope Cleaned: Y/N Phase Rings Aligned: Y/N Analyzed By: Kayla Carnes

Ref. Slide Data: 8715 4/100 Pass
(Number / fibers per field / Pass/Fail)HSE-NPL Test Slide: 7050 Pass
(Number / Pass/Fail)Graticule Field Area (mm²): 0.00785

Sample #	Location or Worker Name / SSN / Task	Sample Type (1-10)	Pump On hh:mm	Pump Off hh:mm	Time (Mins)	Rotometer Flow Rate (LPM)	Volume (Liters)	LOQ	Actual Count	Adjusted Count *	Result *	Analyst ID
01	Blank											
02	Blank											
03	East wing 2nd floor	3	7:01 am	10:10 pm	189	8.5	1606.5	0.001	7.5/100	-	0.002	
04	Boiler House	3	7:10 am	10:22 pm	190	8.5	1615	0.001	10/100	-	0.003	
05	East wing 2nd floor	3	10:10 am	12:4 pm	154	8.5	1649	0.001	8.5/100	-	0.002	
06	Boiler House	3	10:20 pm	12:9 pm	189	8.5	1606.5	0.001	11/100	-	0.003	
07												
08												
09	Duplicate Analysis											
10	QA/QC Calculation								1/100		Pass/Fail	KC

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/fields)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase: 1) Area Background 3) Asbestos Removal 5) Glove Bag Evolutions 6) Personal Air Sample 9) Other Associated Work
2) Pre-Abatement/Prep 4) Final Cleaning 7) Final Air Clearance 8) Waste Load-Out 10) Blank

Comments:

Analyst Signature:

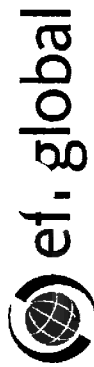
Date: 8-27-18

Relinquished By: _____

Date: _____

Received By: _____

Date: _____



EFI Global, Inc. ASBESTOS AIR SAMPLING LOG (Version 3.9 Revised 6/06/13)

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Site Name and Address: Quincy Medical Center, 114 Whitwell St. Quincy, MA - East Wing 2nd Floor

Project No.: 98350-06992

Client Name: Fox Rock

Collected By: Kayla Carnes

Microscope No: 150211

Ref. Slide Data: 8712 5/100 Pass

(Number / fibers per field / Pass/Fail)

HSE-NPL Test Slide: 7050 Pass

(Number / Pass/Fail)

Phase Rings Aligned (Y/N) Analyzed By: Kayla Carnes

Graticule Field Area (mm²): 0.00785

Collection Date: 8-28-18

Sample #	Location or Worker Name / SSN / Task	Sample Type (1-10)	Pump On hh:mm	Pump Off hh:mm	Time (Mins)	Rotometer Flow Rate (LPM)	Ave [B]	Volume (Liters) A * B = (2.7 / C)	LOQ	Actual Count (F/Flds)	Adjusted Count * (F/Flds)	Result * (F/CC)	Analyst ID Initials
01	Blank												
02	Blank												
03	East Side Windows North	7	451	620	89	15.2	15.2	352.8	0.002	3/100	-	0.001	
04	East Side Windows North West	7	453	621	88	15.2	14.8	320.0	0.002	4.5/100	-	0.001	
05	East Side Windows North East	7	454	623	87	15.2	14.8	305.0	0.002	2.5/100	-	0.001	
06	East Side Windows Center Center Inner	7	457	625	88	15.2	15.2	337.6	0.002	3/100	-	0.001	
07	East Side Windows South East	7	458	627	89	15.2	15.2	352.8	0.002	3.5/100	-	0.001	
08	East Side Windows South West	7	459	628	89	15.2	14.8	335.0	0.002	4/100	-	0.001	
09	East Side Windows South Side (Right)	7	501	630	89	15.2	15.2	352.8	0.002	4.5/100	-	0.001	
10	East Side Windows South (Left Side)	7	503	631	88	15.2	15.2	337.6	0.002	3/100	-	0.001	
11	Duplicate Analysis									3.5/100			
Abs Value [Sqr Root (first density) - Sqr Root (dup density)] <= 2.77 x (Avg of the sq Root of the two counts) x.225													Pass/Fail
QA/QC Calculation													Pass/Fail

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background	3) Asbestos Removal	5) Glove Bag Evolutions	6) Personal Air Sample	9) Other Associated Work
	2) Pre-Abatement/Prep	4) Final Cleaning	7) Final Air Clearance	8) Waste Load-Out	10) Blank

Comments:

Analyst Signature:

Relinquished By:

Date: 8-28-18

Date:

Received By:

Date:



CERTIFICATE OF COMPLETION

Site Name: Quincy Medical Center Project Number: 020-00020

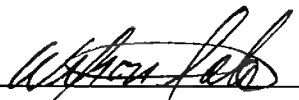
Site Address: 114 Whitwell St, Quincy, MA

Work Area: East Wing 2nd floor East side Windows

Material & Quantity Removed: 17 Windows → ACM Window Caulking

Contractor's Certification of Project Completion

Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.

Signature:  Date: 8-28-18

Print Name: WILSON SOTO

Print Title: P. MGR

Contractor Name: Omni Environmental

EFI Field Technician Certification

The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.

Signature:  Date: 8-28-18

Print Name: Kayla Carnes

EFI Global, Inc.

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BOSTON NORTH

CERTIFICATE OF VISUAL INSPECTION

Site Name: Quincy Medical Center Project Number: 020-00020


Site Address: 114 Whitwell St, Quincy, MA

Work Area: East wing 2nd floor East side windows

Material & Quantity Removed: 17 windows → ACM window
caulking

Contractor's Certification of Visual Inspection

Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.

Signature:  Date: 8-28-18

Print Name: WILSON SOTO

Print Title: Supervisor

Contractor Name: Omni Environmental

EFI Field Technician Certification

The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.

Signature:  Date: 8-28-18

Print Name: Kayla Carnes

EFI Global, Inc.

155 West Street | Suite 6 | Wilmington, MA 01887 | PHONE 978.688.3736 | FAX 978.688.5494 | FREE 800.659.1202



CERTIFICATE OF FINAL AIR CLEARANCE

Site Name: Quincy Medical Center Project Number: 020-00020

Site Address: 114 Whitwell St, Quincy, MA

Work Area: East Wing 2nd Floor East Side Windows

Material & Quantity Removed: 17 windows → ACM Window
Caulking

EFI Certification of Final Air Clearance

This certificate is to certify that final air clearance has been achieved for the above containment work area. An air sample concentration of:

0-001
< LOD Fibers per Cubic Centimeter (f/cc)
Using Phased Contrast Microscopy

N/A Structures per Millimeter Squared (f/cc)
Using Transmission Electron Microscopy

Signature: [Signature] Date: 8-28-18

Print Name: Kayla Carnes

EFI Global, Inc.

155 West Street | Suite 6 | Wilmington, MA 01887 | PHONE 978.688.3736 | FAX 978.688.5494 | FREE 800.659.1202



EFI Global, Inc. **ASBESTOS AIR SAMPLING LOG** (Version 3.9 Revised 6/06/13)

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

020.00026

Site Name and Address: Quincy Medical Center, 114 Whitwell St. Quincy, MA - East wing & Boiler HouseProject No.: 28350-06992

Client Name: Fox Rock

Collected By: Kayla Carnes

Collection Date: 8-30-18Microscope No: 10211Microscope Cleaned: Y/N Phase Rings Aligned: Y/N Analyzed By: Kayla CarnesRef. Slide Data: 8716 4/100 pass
(Number / fibers per field / Pass/Fail)Graticule Field Area (mm²): 0.00785

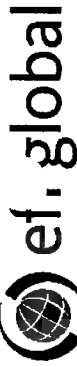
Sample #	Location or Worker Name / SSN / Task	Sample Type (1-10)	Pump On hh:mm	Pump Off hh:mm	Time (Mins)	Rotometer Flow Rate (LPM)		Volume (Liters)	LOQ	Actual Count (F/Flds)	Adjusted Count * (F/Flds)	Result * (F/CC)	Analyst ID Initials
					[A]	On	Off	Ave [B]	A * B = [C]	(F/Flds)	(F/Flds)	(F/CC)	
01	Blank					Do Not Write In This Area.							
02	Blank									0/100	Do Not Write	Do Not Write	KE
03	East wing 3rd fl	3	728	1030	182	8.5	8.5	8.5	1547	0.24	6.5/60	0.002	KE
04	Boiler House	3	735	1038	183	8.5	8.5	8.5	1555.5	0.007	8/100	0.002	KE
05	East wing 3rd fl	3	1030	120	170	8.5	8.5	8.5	1495	0.001	5/100	0.001	KE
06	Boiler House	3	1038	128	170	8.5	8.5	8.5	1495	0.001	7/100	0.002	KE
07													
08													
09													
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11													
12													
13													
14													
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QC	Duplicate Analysis									6/100		Pass/Fail	KE
QA/QC	Calculation												KE

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase: 1) Area Background 3) Asbestos Removal 5) Glove Bag Evolutions 6) Personal Air Sample 9) Other Associated Work
2) Pre-Abatement/Prep 4) Final Cleaning 7) Final Air Clearance 8) Waste Load-Out 10) Blank

Comments:

Analyst Signature: [Signature]Date: 8-30-18Relinquished By: [Signature]Date: —Received By: —Date: —



EFL Global, Inc. ASBESTOS AIR SAL. LING LOG (Version 3.9 Revised 6/06/13)

EFL Global, Inc. ASBESTOS AIR SAL. LING LOG (Version 3.9 Revised 6/06/13)

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

026.00025

Site Name and Address: Quincy Medical Center, 114 Whitwell St. Quincy, MA -
East Quincy - 301-701-1000
Backgrouncls
Have
Project No.: 98250-06932

Client Name: Fox Rock

Collected By: Kayla Carnes

Collection Date:

Microscope No: F0211

Microscope Cleaned: ~~Y~~ / N Phase Rings Aligned: ~~Y~~Phase Rings Aligned: Φ / N Analyzed Bv: Kavlá Carnes

Ref. Slide Data: 8718 4/100 Pass

HSE-NPI Test Slide: 7050 Pass

Graticule Field Area (mm²): 0.00785[illegible]

If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is (fib/fields)(385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:

1) Area Background

3) Asbestos Removal

5) Glove Bag Evolutions

6) Personal Air Sample

9) Other Associated Work

Comments:

Analyst Signature

Date: 8.31.18 ✓

Relinquished By:

Date: _____

Received By:

Date:



EFI Global, Inc.

ASBESTOS AIR SAI

LING LOG (Version 3.9 Revised 6/06/13)

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

020.00026

Page 2 of 2

Site Name and Address: Quincy Medical Center, 114 Whitwell St. Quincy, MA - East wing 3rd floor

Project No.: 08950-06982

Client Name: Fox Rock

Collected By: Kayla Carnes

Collection Date: 8.31.18

Microscope No: 1 F0211

Microscope Cleaned: 0/N Phase Rings Aligned: 0/N Analyzed By: Kayla Carnes

Ref. Slide Data: 8718 4/100

HSE-NPL Test Slide: 7050 Pass

Graticule Field Area (mm²): 0.00755

(Number / fibers per field / Pass/Fail)

(Number / Pass/Fail)

Sample #	Location or Worker Name / SSN / Task	Sample Type (1-10)	Pump On hh:mm	Pump Off hh:mm	Time (Mins)	Rotometer Flow Rate (LPM)	Volume (Liters)	LOQ	Actual Count	Adjusted Count *	Result *	Analyst ID
01 A	Blank											
02 A	Blank											
03 A	East side windows North	7	9:48 AM	11:10 AM	82	15.2	1246.4	0.002	2/100	—	0.001	
04 A	East side windows North west	7	9:48 AM	11:11 AM	83	15.2	1241.6	0.002	3.5/100	—	0.001	
05 A	East side windows North East	7	9:49 AM	11:12 AM	83	15.2	1241.6	0.002	3/100	—	0.001	
06 A	East side windows center East	7	9:50 AM	11:14 AM	84	15.2	1242.8	0.002	4.5/100	—	0.001	
07 A	East side windows center west	7	9:51 AM	11:14 AM	83	15.2	1245	0.002	3.5/100	—	0.001	
08 A	East side windows South west	7	9:52 AM	11:15 AM	83	15.2	1245	0.002	3/100	—	0.001	
09 A	East side windows South East	7	9:52 AM	11:17 AM	85	15.2	1242	0.002	2.5/100	—	0.001	
10 A	East side windows South	7	9:53 AM	11:17 AM	84	15.2	1260	0.002	3/100	—	0.001	
07 A	Duplicate Analysis								3.5/100			
	QA/QC Calculation										Pass/Fail	

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/fields)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background	3) Asbestos Removal	5) Glove Bag Evolutions	6) Personal Air Sample	9) Other Associated Work
	2) Pre-Abatement/Prep	4) Final Cleaning	7) Final Air Clearance	8) Waste Load-Out	10) Blank

Comments:

Analyst Signature:

Date: 8.31.18

Relinquished By:

Received By:

Date:



CERTIFICATE OF COMPLETION

Site Name: Quincy Medical Center

Project Number: 020.00026
98350-06932

Site Address: 114 Whitwell St, Quincy, MA

Work Area: East Wing 3rd Floor East Side Windows

Material & Quantity Removed: 17 Windows → ACM Window Caulking

Contractor's Certification of Project Completion

Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.

Signature: Wilson Soto Date: 8.31.18

Print Name: WILSON SOTO

Print Title: Supervisor

Contractor Name: Omni Environmental

EFI Field Technician Certification

The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.

Signature: Kayla Carnes Date: 8.31.18

Print Name: Kayla Carnes

EFI Global, Inc.

155 West Street | Suite 6 | Wilmington, MA 01887 | PHONE 978.688.3736 | FAX 978.688.5494 | FREE 800.659.1202



CERTIFICATE OF VISUAL INSPECTION

Site Name: Quincy Medical Center Project Number: 020-00026
98350-06932
Site Address: 114 Whitwell St, Quincy, MA
Work Area: East wing 3rd floor East Side windows
Material & Quantity Removed: 17 windows → Acn Window Caulking

Contractor's Certification of Visual Inspection

Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.

Signature: [Signature] Date: 8-31-18
Print Name: WILSON SOTO
Print Title: Supervisor
Contractor Name: Omni Environmental

EFI Field Technician Certification

The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.

Signature: [Signature] Date: 8-31-18
Print Name: Kayla Carnes

EFI Global, Inc.

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BOSTON NORTH

CERTIFICATE OF FINAL AIR CLEARANCE

Site Name: Quincy Medical Center Project Number: 020.00026
~~98350-06932~~

Site Address: 114 Whitwell St, Quincy, MA

Work Area: East wing 3rd floor East side windows

Material & Quantity Removed: 17 windows → ACM Window Caulking

EFI Certification of Final Air Clearance

This certificate is to certify that final air clearance has been achieved for the above containment work area. An air sample concentration of:

0.001 Fibers per Cubic Centimeter (f/cc)
CLOD Using Phased Contrast Microscopy

N/A Structures per Millimeter Squared (f/cc)
Using Transmission Electron Microscopy

Signature: [Signature] Date: 8.31.18

Print Name: Kayla Carnes

EFI Global, Inc.

155 West Street | Suite 6 | Wilmington, MA 01887 | PHONE 978.688.3736 | FAX 978.688.5494 | FREE 800.659.1202



EFI Global, Inc. **ASBESTOS AIR SAM.** **JNG LOG** (Version 3.9 Revised 6/06/13)
PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA

Client Name: Fox Rock

Collected By: Kavla Carnes

Collection Date: 9.4.18

Microscope No: 170211

Microscope Cleaned: ~~0~~/N

Analyzed By: Kayla Carnes

Ref. Slide Data: S719, S100 Pass

HSE-NPI Test Slide:

7050 Pass

Graticule Field Area (mm ²):	0.00785
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[illegible]

*If **Adjusted Count** is less than or equal to 5 Fibers/100 Fields, then report **Result** as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100µm the concentration calculation is $(\text{fib}/\text{flds}) * 385 / (\text{Volume} * 7.85)$. This calculation MUST be adjusted for variables other than mentioned

Work Phase:

1) Area Background

3) Asbestos Removal

5) Glove Bag Evolutions

6) Personal Air Sample

9) Other Associated Work

Comments:

Analyst Signature:

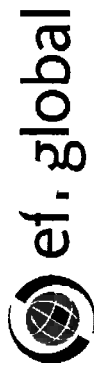
Date: 5.4.18

Relinquished By:

Date:

Received By:

Date:

EFI Global, Inc. **ASBESTOS AIR SAMPLING LOG** (Version 3.9 Revised 6/06/13)

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

PC: 026.00026

Page

of

2022

Site Name and Address: Quincy Medical Center, 114 Whitwell St. Quincy, MA - Boiler House Clearance Project No.: 98350-06992

Client Name: Fox Rock

Collected By: Kayla Carnes

Collection Date: 9-4-18

Microscope No: 1F0211

Microscope Cleaned: D/N Phase Rings Aligned: D/N Analyzed By: Kayla Carnes

Ref. Slide Data: 8718 5/100 Pass
(Number / fibers per field / Pass/Fail)HSE-NPL Test Slide: 7050 Pass
(Number / Pass/Fail)Graticule Field Area (mm²): 0.00785

Sample #	Location or Worker Name / SSN / Task	Sample Type	Pump On	Pump Off	Time (Mins)	Rotometer Flow Rate (LPM)	Ave [B]	Volume (Liters)	LOQ	Actual Count	Adjusted Count *	Result *	Analyst ID
01	Blank	(1-10)	hh:mm	hh:mm	[A]	On	Off	A * B = [C]	(2.7 / C)	(F/Flds)	(F/Flds)	(F/CC)	Initials
02	Blank												
03	Cat walk West	7	730pm	931Am	121	13.0	13.0	1573	0.001	8/100	-	0.002	
04	Cat walk Center	7	731Am	931Am	120	13.0	13.0	1560	0.001	13/100	-	0.004	
05	Cat walk East	7	732Am	933Am	121	13.0	13.0	1573	0.001	45/100	-	0.001	
06	Main Floor West	7	736Am	935Am	119	13.0	13.0	1547	0.001	8/100	-	0.002	
07	Main Floor East	7	736Am	936Am	120	13.0	13.0	1560	0.001	12/100	-	0.003	
08	Main Floor North	7	737Am	936Am	119	13.0	13.0	1547	0.001	12.5/100	-	0.003	
09	Basement South	7	740Am	938Am	118	13.0	13.0	1534	0.001	45/100	-	0.001	
10	Basement North	7	741Am	938Am	117	13.0	13.0	1521	0.001	8/100	-	0.002	
08	Duplicate Analysis												
QA/QC Calculation										7/100		Pass/Fail	ke

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/flds)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background	3) Asbestos Removal	5) Glove Bag Evolutions	6) Personal Air Sample	9) Other Associated Work
	2) Pre-Abatement/Prep	4) Final Cleaning	7) Final Air Clearance	8) Waste Load-Out	10) Blank

Comments:

Analyst Signature:

Date: 9-4-18

Relinquished By: _____

Date: _____

Received By: _____

Date: _____



CERTIFICATE OF COMPLETION

Site Name: Quincy Medical Center Project Number: 020-00026
98350-06932

Site Address: 114 Whitwell St, Quincy, MA

Work Area: Boiler House

Material & Quantity Removed: 2500 LF Pipe Insulation + 700 SF
Boiler insulation & interior boiler components + 1500 SF Boiler
breeching insulation

Contractor's Certification of Project Completion

Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.

Signature: Wilson R. Soto Date: 9-4-18

Print Name: WILSON R. SOTO

Print Title: Project Manager

Contractor Name: Omni Environmental

EFI Field Technician Certification

The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.

Signature: Kayla Carnes Date: 9-4-18

Print Name: Kayla Carnes



CERTIFICATE OF VISUAL INSPECTION

Site Name: Quincy Medical Center Project Number: 020-00026
~~98350-06932~~

Site Address: 114 Whitwell St, Quincy, MA

Work Area: Boiler House

Material & Quantity Removed: 2500 LF Pipe Insulation + 700 SF Boiler
insulation & interior boiler components + 1500 SF Boiler
breeching insulation

Contractor's Certification of Visual Inspection

Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.

Signature: Wilson R. Soto Date: 9-4-18

Print Name: WILSON R. SOTO

Print Title: SUPERVISOR

Contractor Name: Omni Environmental

EFI Field Technician Certification

The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.

Signature: Kayla Carnes Date: 9-4-18

Print Name: Kayla Carnes



CERTIFICATE OF FINAL AIR CLEARANCE

Site Name: Quincy Medical Center Project Number: 98350-06932

Site Address: 114 Whitwell St, Quincy, MA

Work Area: Boiler Hase

Material & Quantity Removed: 2500 LF pipe insulation + 700 SF
Boiler insulation & interior boiler components + 1500 SF Boiler
breaching insulation

EFI Certification of Final Air Clearance

This certificate is to certify that final air clearance has been achieved for the above containment work area. An air sample concentration of:

0.004 Fibers per Cubic Centimeter (f/cc)
Using Phased Contrast Microscopy

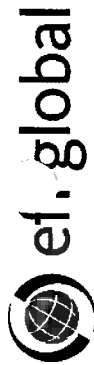
N/A Structures per Millimeter Squared (f/cc)
Using Transmission Electron Microscopy

Signature: [Signature] Date: 9-4-18

Print Name: Kayla Carnes

EFI Global, Inc.

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EFI Global, Inc.

ASBESTOS AIR SAI

LOG (Version 3.9 Revised 6/06/13)

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

020-00020

Site Name and Address: Quincy Medical Center, 114 Whitwell St. Quincy, MA

020-00020

Project No.: 98350-00002

Client Name: Fox Rock

Collected By: Kavita Carnes

Collection Date: 9-5-19

Microscope No: 15024

Microscope Cleaned: N Phase Rings Aligned: N Analyzed By: Kavita Carnes

Ref. Slide Data: 8716 4/100 Pass

HSE-NPL Test Slide: 7050

Pass

Graticule Field Area (mm²): 0.00785

(Number / fibers per field / Pass/Fail)

(Number / Pass/Fail)

Sample #	Location or Worker Name / SSN / Task	Sample Type (1-10)	Pump On hh:mm	Pump Off hh:mm	Time (Mins)	Rotometer Flow Rate (LPM)	Ave [B] [C]	Volume (Liters)	LOQ (2.7 / C)	Actual Count (F/Flds)	Adjusted Count * (F/Flds)	Result * (F/CC)	Analyst ID Initials
01	Blank												
02	Blank												
03	South Side	7	1128 AM	1258 PM	90	15.2	15.2	1368	0.001	3/100	0.001	→	
04	East Side	7	1129 AM	1028 PM	93	15.2	15.2	1413.6	0.001	4.5/100	0.001	→	
05	West Side	7	1131 AM	1031 PM	92	15.2	15.2	1358.4	0.001	4/100	0.001	→	
06	North Side	7	1132 AM	105 PM	93	15.2	15.2	1413.6	0.001	3/100	0.001	→	
07	Center 1	7	1134 AM	106 PM	92	15.2	14.8	1380	0.001	2.5/100	0.001	→	
08	Center 2	7	1155 PM	107 PM	92	15.2	15.2	1358.4	0.001	4/100	0.001	→	
09	North West Side	7	1156 PM	108 PM	92	15.2	15.2	1358.4	0.001	5/100	0.001	→	
10	South East Side	7	1131 PM	109	92	15.2	14.8	1380	0.001	5/100	0.001	→	
α	Duplicate Analysis												
α	QA/QC Calculation									4.5/100		Pass/Fail	

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/fields)*385)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background	3) Asbestos Removal	5) Glove Bag Evolutions	6) Personal Air Sample	9) Other Associated Work
	2) Pre-Abatement/Prep	4) Final Cleaning	7) Final Air Clearance	8) Waste Load-Out	10) Blank

Comments:

Analyst Signature:

Date: 9-5-19

Relinquished By:

Date:

Received By:

Date:



CERTIFICATE OF COMPLETION

Site Name: Quincy Medical Center Project Number: 020.00026
98350-06932
Site Address: 114 Whitwell St, Quincy, MA
Work Area: East wing 2nd floor - Room # B259 part 1
Material & Quantity Removed: Black dampproofing. ~55 SF

Contractor's Certification of Project Completion

Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.

Signature: Wilson Sato Date: 9-5-18
Print Name: Wilson Sato
Print Title: Supervisor
Contractor Name: Omni Environmental

EFI Field Technician Certification

The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.

Signature: Kayla Carnes Date: 9-5-18
Print Name: Kayla Carnes



CERTIFICATE OF VISUAL INSPECTION

Site Name: Quincy Medical Center Project Number: 020-00026
~~98350-06932~~

Site Address: 114 Whitwell St, Quincy, MA

Work Area: East Wing 2nd Floor - Room #8259 Part

Material & Quantity Removed: Black dampproofing ~55 SF

Contractor's Certification of Visual Inspection

Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.

Signature: Wilson Soto Date: 9-5-18

Print Name: WILSON SOTO

Print Title: SUPERVISOR

Contractor Name: Omni Environmental

EFI Field Technician Certification

The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.

Signature: Kayla Carnes Date: 9-5-18

Print Name: Kayla Carnes

EFI Global, Inc.

155 West Street | Suite 6 | Wilmington, MA 01887 | PHONE 978.688.3736 | FAX 978.688.5494 | FREE 800.659.1202



CERTIFICATE OF FINAL AIR CLEARANCE

Site Name: Quincy Medical Center Project Number: 020.00026
~~98350-06932~~

Site Address: 114 Whitwell St, Quincy, MA

Work Area: East Wing 2nd Floor - Room #B259

Material & Quantity Removed: Black dampproofing ~55 SF

EFI Certification of Final Air Clearance

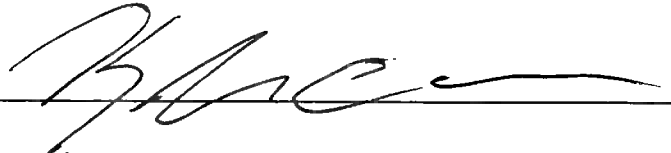
This certificate is to certify that final air clearance has been achieved for the above containment work area. An air sample concentration of:

0.001

Fibers per Cubic Centimeter (f/cc)
Using Phased Contrast Microscopy

N/A

Structures per Millimeter Squared (f/cc)
Using Transmission Electron Microscopy

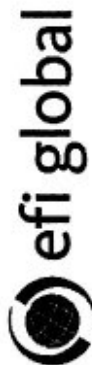
Signature: 

Date: 9-5-78

Print Name: Kayla Carnes

EFI Global, Inc.

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EFI Global, Inc. **ASBESTOS AIR SAMPLING LOG** (Version 3.9 Revised 6/06/13)
PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Page 1 of 1

Site Name and Address: Quincy Medical Center 114 Whitwell St Quincy, MA Project No.: 020-00026
Client Name: Fentack Collected By: Richard Murphy Collection Date: 9/6/18
Microscope No: Pass Microscope Cleaned: DN Phase Rings Aligned: DN Analyzed By: Richard Murphy
Ref. Slide Data: 2 65/100 Pass HSE-NPL Test Slide: 7141 5 Pass Graticule Field Area (mm²): 0.00785
(Number / fibers per field / Pass/Fail) (Number / Pass/Fail)

Sample #	Location or Worker Name / SSN / Task	Sample Type (1-10)	Pump On hh:mm	Pump Off hh:mm	Time (Mins)	Rotometer Flow Rate (LPM)		Ave [B]	Volume (Liters) A * B = [C]	LOQ (2.7 / C)	Actual Count (F/Flds)	Adjusted Count * (F/Flds)	Result * (F/CC)	Analyst ID Initials
01	Blank					On	Off							
02	Blank													
03	outside containment @ Dean Room 3256	3	0603	0946	223	7.6	7.6	7.6	1695	.002	131/100	121/100	.003	RRM
04	outside containment @ HEPA Room 3258	3	0604	0947	223	7.6	7.6	7.6	1695	.002	111/100	111/100	.003	RRM
05	outside Boiler House East Side @ Regulated Area	3	0612	0953	221	7.6	7.6	7.6	1680	.002	161/100	161/100	.005	RRM
06	outside containment @ Dean Room 3256	3	0946	1337	171	7.6	7.6	7.6	1300	.002	91/100	91/100	.003	RRM
07	outside containment @ HEPA Room 3258	3	0947	1238	171	7.6	7.6	7.6	1300	.002	81/100	81/100	.003	RRM
08	outside Boiler House East Side @ Regulated Area	3	0953	1243	170	7.6	7.6	7.6	1292	.002	125/100	125/100	.005	RRM
03	Duplicate Analysis													
03	QA/QC Calculation													
Abs Value (Sqr Root (first density) - Sqr Root (dup density)) <= 2.7 x (Avg of the sq Root of the two counts) x.225											11.5/100			RRM

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Watton-Beckett G-22 with a diameter of 100um the concentration calculation is (fib/fields)*385/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background	3) Asbestos Removal	5) Glove Bag Evolutions	6) Personal Air Sample	9) Other Associated Work
	2) Pre-Abatement/Prep	4) Final Cleaning	7) Final Air Clearance	8) Waste Load-Out	10) Blank

Comments: _____
Analyst Signature: Richard Murphy Date: 9/6/18
Relinquished By: _____ Date: _____
Received By: _____ Date: _____



EFI Global, Inc. ASBESTOS AIR SAM

c. ASBESTOS AIR SAMPLING LOG (Version 3.9 Revised 6/06/13)

PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

520025

Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA

Project No.: 98950-06032

Client Name: Fox Rock

Collected By: Kayla Carnes

Collection Date:

Microscope No: 1F0211Microscope Cleaned: Y / N Phase R

Phase Rings Aligned: Y / N Analyzed By: Kavla Carnes

Ref. Slide Data: 87% 5/100 pass

7050 0506

Graticule Field Area (mm²): 0.00785[illegible]

*if Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100mm the concentration calculation is (fib/fields)*385/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background	2) Pre-Abatement/Prep	3) Asbestos Removal	4) Final Cleaning	5) Glove Bag Evolutions	6) Personal Air Sample	9) Other Associated Work
						8) Waste Load-Out	10) Blank

Comments:

Analyst Signature:

Date: 9-7-77

Relinquished By:

Received By:

Date:



EFI Global, Inc. **ASBESTOS AIR SAMPLING LOG** (Version 3.9 Revised 6/06/13)
PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Site Name and Address: Quincy Medical Center, 114 Whitwell St. Quincy, MA - Clearence Project No.: 96350-06352

Client Name: Fox Rock

Collected By: Kayla Carnes

Collection Date: 9-7-18

Microscope No: 1E0211

Microscope Cleaned: 8/11 Phase Rings Aligned: DN Analyzed By: Kayla Carnes

Ref. Slide Data: 8718 5/100 Pass

HSE-NPL Test Slide: 7050 Pass

Graticule Field Area (mm²): 0.00785

(Number / fibers per field / Pass/Fail)

Sample #	Location or Worker Name / SSN / Task	Sample Type (1-10)	Pump On hh:mm	Pump Off hh:mm	Time (Mins)	Rotometer Flow Rate (LPM)	Ave [B]	Volume (Liters) A * B = [C]	LOQ (2.7 / C)	Actual Count (F/Flds)	Adjusted Count *	Result *	Analyst ID
01	Blank									0/100	Do Not Write	Do Not Write	KC
02	Blank									0/100	Do Not Write	Do Not Write	KC
03	Room 255 South	7	1050 AM	1212	82	15.6	15.6	1279.2	0.002	3/100	-	0.001	
04	Room 255 North	7	1051 AM	1212	81	15.6	15.6	1263.6	0.002	4/100	-	0.001	
05	Room 256 South	7	1052 AM	1214	82	15.6	15.6	1279.2	0.002	3.5/100	-	0.001	
06	Room 256 North	7	1053 AM	1214	81	15.6	15.4	1247.4	0.002	4/100	-	0.001	
07	Room 257 South	7	1054 AM	1215	81	15.6	15.4	1247.4	0.002	3.5/100	-	0.001	
08	Room 257 North	7	1054 AM	1215	81	15.6	15.6	1263.6	0.002	4/100	-	0.001	
09	Room 258 South	7	1056 AM	1216	80	15.6	15.4	1232.0	0.002	3/100	-	0.001	
10	Room 258 North	7	1057 AM	1216	79	15.6	15.6	1232.4	0.002	3.5/100	-	0.001	
10	Duplicate Analysis									4/100			KC
	QA/QC Calculation											Pass/Fail	KC

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is ((fib/fields)*395)/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background	3) Asbestos Removal	5) Glove Bag Evolutions	6) Personal Air Sample	9) Other Associated Work
	2) Pre-Abatement/Prep	4) Final Cleaning	7) Final Air Clearance	8) Waste Load-Out	10) Blank

Comments: _____

Analyst Signature: _____

Date: 9-7-18

Relinquished By: _____

Date: _____

Received By: _____

Date: _____



CERTIFICATE OF COMPLETION

Site Name: Quincy Medical Center Project Number: 020-00026
98350-06932
Site Address: 114 Whitwell St, Quincy, MA
Work Area: East wing 2nd floor - Room #B255-B258 part 2
Material & Quantity Removed: Black dampproofing 120 SF

Contractor's Certification of Project Completion

Contractor Supervisor hereby certifies that he/she has completed asbestos abatement in the work area in accordance with job specifications and that this project was completed in compliance with all applicable federal, state and local regulations. Contractor personnel were properly trained, licensed and provided all the proper documentation to perform asbestos abatement. Proper engineering controls were used throughout this project.

Signature: Wilson Soto Date: 9-7-18
Print Name: WILSON SOTO
Print Title: SUPERVISOR
Contractor Name: Omni Environmental

EFI Field Technician Certification

The EFI field technician hereby certifies that he/she has completed clearance sampling, punch list and verifies that this project has been completed in a safe and professional manner.

Signature: Kayla Carnes Date: 9-7-18
Print Name: Kayla Carnes



CERTIFICATE OF VISUAL INSPECTION

020-00026

Site Name: Quincy Medical Center Project Number: 98350-06932

Site Address: 114 Whitwell St, Quincy, MA

Work Area: East Wing 2nd Floor - Rooms # B255-B258 part 2

Material & Quantity Removed: Black dampproofing 120 SF

Contractor's Certification of Visual Inspection

Contractor Supervisor hereby certifies that he/she has visually inspected the work area (in general, all surfaces including but not limited to piping, beams, ledges, walls, decks, floor, sheet plastic, decontamination unit, equipment, etc.) has found no dust, debris or residue.

Signature: Wilson Soto Date: 9-7-18

Print Name: WILSON SOTO

Print Title: SUPERVISOR

Contractor Name: Omni Environmental

EFI Field Technician Certification

The EFI on-site representative hereby certifies that he/she has completed a visual inspection and verifies that this inspection has been thorough. All surfaces within the work area(s) have been inspected and no dust, debris or residue remains.

Signature: Kayla Carnes Date: 9-7-18

Print Name: Kayla Carnes



CERTIFICATE OF FINAL AIR CLEARANCE

Site Name: Quincy Medical Center Project Number: 020-00026
98350-06932
Site Address: 114 Whitwell St, Quincy, MA
Work Area: East Wing 2nd Floor - Rooms # B255-B258 part 2
Material & Quantity Removed: Black damp proofing 120 SF

EFI Certification of Final Air Clearance

This certificate is to certify that final air clearance has been achieved for the above containment work area. An air sample concentration of:

0.001 Fibers per Cubic Centimeter (f/cc)
Using Phased Contrast Microscopy

N/A Structures per Millimeter Squared (f/cc)
Using Transmission Electron Microscopy

Signature: [Signature] Date: 9-7-18

Print Name: Kayla Carnes

EFI Global, Inc.

155 West Street | Suite 6 | Wilmington, MA 01887 | PHONE 978.688.3736 | FAX 978.688.5494 | FREE 800.659.1202



EFI Global, Inc. **ASBESTOS AIR SAMPLING LOG** (Version 3.9 Revised 6/06/13)
PCM: NIOSH 7400 Method (Revision #3, Dated 8/15/1994)

Pa.

of

Site Name and Address: Quincy Medical Center, 114 Whitwell St, Quincy, MA

Client Name: Fox Rock

Collected By: Kayla Carnes

Collection Date:

8-10-18

Microscope No: 1f0211

Microscope Cleaned: ☒ N Phase Rings Aligned: ☒

Analyzed By: Kavla Carnes

Ref. Slide Data: 8716 5/100 pass

HSE-NPL Test Slide: 7050 Press

50 Pass

Graticule Field Area (mm²): 0.00745

Sample #	Location or Worker Name / SSN / Task	Sample Type (1-10)	Pump On	Pump Off	Time (Mins) [A]	Rotometer Flow Rate (LPM)			Volume (Liters) $A \times B = [C]$	LOQ (2.7 / C)	Actual Count (F/Flds)	Adjusted Count *	Result *	Analyst ID Initials
			hh:mm	hh:mm		On	Off	Ave [B]						
01	Blank				Do Not Write In This Area.									KC
02	Blank													KC
03	Boiler House	3	720 ^p	1015 ^a	125	8.5	8.5	8.5	1487.5	0.001	6.5/100	-	6.002	KC
04	Boiler House	3	1015 ^m	1231 ^p	135	8.5	8.5	8.5	1147.5	0.002	5/100	-	0.002	KC
04	Duplicate Analysis													KC
	QA/QC Calculation													KC

Abs Value [Sqr Root (first density) - Sqr Root (dup density)] <= 2.7 x (Avg of the sq Root of the two counts) x .225
Pass/Fail

*If Adjusted Count is less than or equal to 5 Fibers/100 Fields, then report Result as < LOQ. Samples will be maintained under the COC Protocol for 30 days after receipt, unless instructed otherwise. If original analysis and QC analysis are less than or equal to the analytical limit of detection of 5 Fibers/100 Fields, then a Failed QC result is acceptable. (Density = (fibers/fields)/graticule area) For a 25mm filter and a Walton-Beckett G-22 with a diameter of 100um the concentration calculation is (fib/fields)*385/(Volume * 7.85). This calculation MUST be adjusted for variables other than mentioned

Work Phase:	1) Area Background	3) Asbestos Removal	5) Glove Bag Evolutions	6) Personal Air Sample	9) Other Associated Work
	2) Pre-Abatement/Prep	4) Final Cleaning	7) Final Air Clearance	8) Waste Load-Out	10) Blank

Comments:

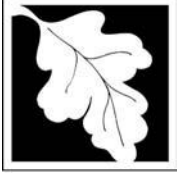
Analyst Signature: [Signature] Date: 9-10-16

Relinquished By: _____ Date: _____

Received By: _____ Date: _____

Date:

DEP Notification



Massachusetts Department of Environmental Protection

eDEP Transaction Copy

Here is the file you requested for your records.

To retain a copy of this file you must save and/or print.

Username: **CHRISMODICA**

Transaction ID: **1246998**

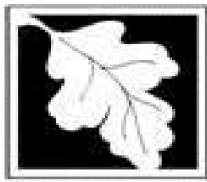
Document: **AQ 06 - Construction/Demolition Notification**

Size of File: **224.69K**

Status of Transaction: **In Process**

Date and Time Created: **2/11/2021:11:33:42 AM**

Note: This file only includes forms that were part of your transaction as of the date and time indicated above. If you need a more current copy of your transaction, return to eDEP and select to "Download a Copy" from the Current Submittals page.



BWP AQ 06 Pre-Form

Notification Prior to Construction or Demolition

☐ This is a revision to an existing form.

Project ID for existing form to be revised:

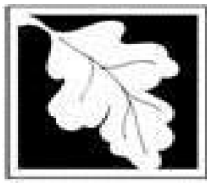
☐ This job is being conducted under a Blanket Permit.

MassDEP assigned Blanket Authorization ID:

☐ This job is being conducted under a Non Traditional Abatement Work Practice Permit.

MassDEP assigned Non Traditional Work Practice Authorization ID:

☒ None of the above conditions apply, generate a new form.



Massachusetts Department of Environmental Protection
BWP AQ 06
Notification Prior to Construction or Demolition

100339095

Asbestos Project #

- ☐ Project Revision
☐ Project Cancellation

A. Applicability

A Construction or Demolition operation of an industrial, commercial, or institutional building, or residential building with 20 or more units is regulated by the Department of Environmental Protection (MassDEP), Bureau of Waste Prevention, Air Quality Division, under Regulations 310 CMR 7.09. Notification of Construction or Demolition operations is required under 310 CMR 7.09 (2) ten (10) working days prior to any work being performed. The following information is required pursuant to 310 CMR 7.09.

1. Is this a fee exempt notification (city, town, district, municipal housing authority, state facility, owner-occupied residential property of four units or less)?

☐ a. Yes ☒ b. No

2. Blanket Permit Project Approval, if applicable:

Approval ID #

3. Non-Traditional Asbestos Abatement Work Practice Approval, if applicable:

Approval ID #

Instructions:

1. All sections of this form must be completed in order to comply with the **Department of Environmental Protection** notification requirements of 310 CMR 7.09.

MassDEP Use Only

Date Received

B. Facility Description

1. Facility Information:

QUINCY MEDICAL CENTER

114 WHITWELL STREET

a. Name of facility

b. Street Address

QUINCY

MA

021690000

6172491414

c. City/Town

d. State

e. Zip Code

f. Telephone

JOSH KLEINMAN, AIA

DIRECTOR OF DESIGN & CONSTRUCTION

g. Facility Contact Person

h. Facility Contact Person Title

6172491414

JOSH@FOXROCKQUINCY.COM

i. Facility Contact Person Telephone

j. Facility Contact Person Email

k. Facility Size:

380,152

6

1. Square Feet

2. Number of Floors

l. Was the facility built prior to 1980?

☒ 1. Yes ☐ 2. No

m. Describe the current or prior use of the facility:

PRIOR USE - HOSPITAL

n. Is the facility a residential facility? ☐ 1. Yes ☒ 2. No

o. If yes, how many units?

2. Facility Owner: ☐ Same address as Facility

FOXROCK WHITWELL REALTY, LLC

1200 HANCOCK STREET

a. Facility Owner Name

b. Address

QUINCY

MA

021690000

6172491414

c. City/Town

d. State

e. Zip Code

f. Telephone

3. Facility On-Site Manager/Owner Representative:

☐ Same contact person as facility

☐ Same address as facility

☐ Same address as owner

DELLBROOK CONSTRUCTION LLC D/B/A DELLBROOK | JKS

859 WILLARD STREET

a. On-Site Manager/Owner Representative

b. Address

Quincy

MA

02169

7813801675

c. City/Town

d. State

e. Zip Code

f. Telephone



C. General Project Description

1. This project is: ☒ New Construction ☒ Demolition ☒ Renovation

2. Project Dates:

1/4/2021

a. Project Start Date (MM/DD/YYYY)

2/29/2024

b. Project End Date (MM/DD/YYYY)

3. General Contractor:

DELLBROOK CONSTRUCTION LLC D/B/A DELLBROOK | JKS

a. Name

859 WILLARD STREET

b. Address

QUINCY

MA

c. City/Town

021690000

e. Zip Code

7813801675

f. Telephone

ROBERT SOLON

g. General Contractor's On-site Manager/Foreman

9786047772

h. Telephone

4. Construction or demolition contractor: ☒ Same as General Contractor

DELLBROOK CONSTRUCTION LLC D/B/A DELLBROOK | JKS

a. Contractor Name

859 WILLARD STREET

b. Address

QUINCY

MA

c. City/Town

021690000

e. Zip Code

7813801675

f. Telephone

ROBERT SOLON

g. Construction and Demolition On-site Manager

9786047772

h. Telephone

5. Licensed Construction Supervisor:

ROBERT SOLON

a. Supervisor Name

CS-043862

b. Construction Supervisor License (CSL) Number

6. Is the entire facility to be demolished?

☐ a. Yes ☒ b. No

7. Describe the area(s) to be demolished:

QUINCY MEDICAL CENTER BUILDINGS & BOILER PLANT

8. Describe the building(s) or addition(s) to be constructed:

FOUR (4) RESIDENTIAL BUILDINGS

9 a. Were the structure(s) surveyed for the presence of Asbestos-Containing Material (ACM)?

☒ 1. Yes ☐ 2. No

b. Who conducted the survey?

JOHN VAZ

1. Name of Asbestos Inspector

AI000270

2. DLS Certification #



BWP AQ 06

Notification Prior to Construction or Demolition

100339095

Asbestos Project

☐ Project Revision

☐ Project Cancellation

C. General Project Description (continued)

10 a. Was asbestos containing material (ACM) found?

☒ 1. Yes ☐ 2. No

b. If ACM was found during the survey, please provide the Asbestos Notification Form (ANF) Project Number.

100338857

General

Statement: If asbestos is found during a Construction or Demolition operation, all responsible parties must comply with 310 CMR 7.00, 7.09, 7.15, and Chapter 21E of the General Laws of the Commonwealth. This would include, but would not be limited to, filing an asbestos removal notification with the Department and/or a notice of release/threat of release of a hazardous substance to the Department, if applicable.

11. For demolition and construction projects, indicate dust suppression techniques to be used:

☐ a. Seeding ☒ b. Wetting ☒ c. Covering ☐ d. Paving ☐ e. Shrouding

☒ f. Other - Specify:

TEMPORARY CONTAINMENT

12. Is this an Emergency Demolition Operation?

☐ a. Yes ☒ b. No

c. Name of MassDEP Official who evaluated the emergency

d. Title

e. Date of Authorization (MM/DD/YYYY)

f. MassDEP Waiver Number

D. Certification

"I certify that I have personally examined the foregoing and am familiar with the information contained in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment. The undersigned hereby states, under the penalties of perjury, that I am aware that this permit application or notification shall not be deemed valid unless payment of the applicable fee is made."

CHRISTOPHER J. MODICA

1. Print Name

CHRISTOPHER J. MODICA

2. Authorized Signature

SENIOR PROJECT MANAGER

3. Position/Title

DELLBROOK CONSTRUCTION LLC D/B/A DELLBROOK | JKS

4. Representing

12/24/2020

5. Date (MM/DD/YYYY)

6. P.E. #